

2010



City of Glendale Water & Power Urban Water Management Plan

Volume II Appendices

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APPENDIX A

URBAN WATER MANAGEMENT PLANNING ACT

Established: AB 797, Klehs, 1983

Amended: AB 2661, Klehs, 1990

AB 11X, Filante, 1991

AB 1869, Speier, 1991

AB 892, Frazee, 1993

SB 1017, McCorquodale, 1994

AB 2853, Cortese, 1994

AB 1845, Cortese, 1995

SB 1011, Polanco, 1995

AB 2552, Bates, 2000

SB 553, Kelley, 2000

SB 610, Costa, 2001

AB 901, Daucher, 2001

SB 672, Machado, 2001

SB 1348, Brulte, 2002

SB 1384, Costa, 2002

SB 1518, Torlakson, 2002

AB 105, Wiggins, 2004

SB 318, Alpert, 2004

CALIFORNIA WATER CODE DIVISION 6 PART 2.6. URBAN WATER MANAGEMENT PLANNING

CHAPTER 1. GENERAL DECLARATION AND POLICY

10610. This part shall be known and may be cited as the "Urban Water Management Planning Act."

10610.2. (a) The Legislature finds and declares all of the following:

- (1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.
- (2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.
- (3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate.
- (4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in

its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years.

- (5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.
 - (6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.
 - (7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.
 - (8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.
 - (9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.
- (b) This part is intended to provide assistance to water agencies in carrying out their long-term resource planning responsibilities to ensure adequate water supplies to meet existing and future demands for water.

10610.4. The Legislature finds and declares that it is the policy of the state as follows:

- (a) The management of urban water demands and efficient use of water shall be actively pursued to protect both the people of the state and their water resources.
- (b) The management of urban water demands and efficient use of urban water supplies shall be a guiding criterion in public decisions.
- (c) Urban water suppliers shall be required to develop water management plans to actively pursue the efficient use of available supplies.

CHAPTER 2. DEFINITIONS

10611. Unless the context otherwise requires, the definitions of this chapter govern the construction of this part.

10611.5. "Demand management" means those water conservation measures, programs, and incentives that prevent the waste of water and promote the reasonable and efficient use and reuse of available supplies.

10612. "Customer" means a purchaser of water from a water supplier who uses the water for municipal purposes, including residential, commercial, governmental, and industrial uses.

10613. "Efficient use" means those management measures that result in the most effective use of water so as to prevent its waste or unreasonable use or unreasonable method of use.

10614. "Person" means any individual, firm, association, organization, partnership, business, trust, corporation, company, public agency, or any agency of such an entity.

10615. "Plan" means an urban water management plan prepared pursuant to this part. A plan shall describe and evaluate sources of supply, reasonable and practical efficient uses, reclamation and demand management activities. The components of the plan may vary according to an individual community or area's characteristics and its capabilities to efficiently use and conserve water. The plan shall address measures for residential, commercial, governmental, and industrial water demand management as set forth in Article 2 (commencing with Section 10630) of Chapter 3. In addition, a strategy and time schedule for implementation shall be included in the plan.

10616. "Public agency" means any board, commission, county, city and county, city, regional agency, district, or other public entity.

10616.5. "Recycled water" means the reclamation and reuse of wastewater for beneficial use.

10617. "Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers. This part applies only to water supplied from public water systems subject to Chapter 4 (commencing with Section 116275) of Part 12 of Division 104 of the Health and Safety Code.

CHAPTER 3. URBAN WATER MANAGEMENT PLANS

Article 1. General Provisions

10620.

- (a) Every urban water supplier shall prepare and adopt an urban water management plan in the manner set forth in Article 3 (commencing with Section 10640).

- (b) Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.
- (c) An urban water supplier indirectly providing water shall not include planning elements in its water management plan as provided in Article 2 (commencing with Section 10630) that would be applicable to urban water suppliers or public agencies directly providing water, or to their customers, without the consent of those suppliers or public agencies.
- (d)
 - (1) An urban water supplier may satisfy the requirements of this part by participation in areawide, regional, watershed, or basinwide urban water management planning where those plans will reduce preparation costs and contribute to the achievement of conservation and efficient water use.
 - (2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.
- (e) The urban water supplier may prepare the plan with its own staff, by contract, or in cooperation with other governmental agencies.
- (f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.

10621.

- (a) Each urban water supplier shall update its plan at least once every five years on or before December 31, in years ending in five and zero.
- (b) Every urban water supplier required to prepare a plan pursuant to this part shall notify any city or county within which the supplier provides water supplies that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.
- (c) The amendments to, or changes in, the plan shall be adopted and filed in the manner set forth in Article 3 (commencing with Section 10640).

Article 2. Contents of Plans

10630. It is the intention of the Legislature, in enacting this part, to permit levels of water management planning commensurate with the numbers of customers served and the volume of water supplied.

10631. A plan shall be adopted in accordance with this chapter and shall do all of the following:

- (a) Describe the service area of the supplier, including current and projected population, climate, and other demographic factors affecting the supplier's water management planning. The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.
- (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a). If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information shall be included in the plan:
 - (1) A copy of any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management.
 - (2) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the urban water supplier has the legal right to pump under the order or decree.

For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to eliminate the long-term overdraft condition.

- (3) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

- (4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.
- (c) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:
 - (1) An average water year.
 - (2) A single dry water year.
 - (3) Multiple dry water years.

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.

- (d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.
- (e)
 - (1) Quantify, to the extent records are available, past and current water use, over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors including, but not necessarily limited to, all of the following uses:
 - (A) Single-family residential.
 - (B) Multifamily.
 - (C) Commercial.
 - (D) Industrial.
 - (E) Institutional and governmental.
 - (F) Landscape.
 - (G) Sales to other agencies.
 - (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof.
 - (I) Agricultural.
 - (2) The water use projections shall be in the same five-year increments described in subdivision (a).

- (f) Provide a description of the supplier's water demand management measures. This description shall include all of the following:
 - (1) A description of each water demand management measure that is currently being implemented, or scheduled for implementation, including the steps necessary to implement any proposed measures, including, but not limited to, all of the following:
 - (A) Water survey programs for single-family residential and multifamily residential customers.
 - (B) Residential plumbing retrofit.
 - (C) System water audits, leak detection, and repair.
 - (D) Metering with commodity rates for all new connections and retrofit of existing connections.
 - (E) Large landscape conservation programs and incentives.
 - (F) High-efficiency washing machine rebate programs.
 - (G) Public information programs.
 - (H) School education programs.
 - (I) Conservation programs for commercial, industrial, and institutional accounts.
 - (J) Wholesale agency programs.
 - (K) Conservation pricing.
 - (L) Water conservation coordinator.
 - (M) Water waste prohibition.
 - (N) Residential ultra-low-flush toilet replacement programs.
 - (2) A schedule of implementation for all water demand management measures proposed or described in the plan.
 - (3) A description of the methods, if any, that the supplier will use to evaluate the effectiveness of water demand management measures implemented or described under the plan.

- (4) An estimate, if available, of existing conservation savings on water use within the supplier's service area, and the effect of the savings on the supplier's ability to further reduce demand.
- (g) An evaluation of each water demand management measure listed in paragraph (1) of subdivision (f) that is not currently being implemented or scheduled for implementation. In the course of the evaluation, first consideration shall be given to water demand management measures, or combination of measures, that offer lower incremental costs than expanded or additional water supplies. This evaluation shall do all of the following:
 - (1) Take into account economic and noneconomic factors, including environmental, social, health, customer impact, and technological factors.
 - (2) Include a cost-benefit analysis, identifying total benefits and total costs.
 - (3) Include a description of funding available to implement any planned water supply project that would provide water at a higher unit cost.
 - (4) Include a description of the water supplier's legal authority to implement the measure and efforts to work with other relevant agencies to ensure the implementation of the measure and to share the cost of implementation.
- (h) Include a description of all water supply projects and water supply programs that may be undertaken by the urban water supplier to meet the total projected water use as established pursuant to subdivision (a) of Section 10635. The urban water supplier shall include a detailed description of expected future projects and programs, other than the demand management programs identified pursuant to paragraph (1) of subdivision (f), that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.
- (i) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.
- (j) Urban water suppliers that are members of the California Urban Water Conservation Council and submit annual reports to that council

in accordance with the "Memorandum of Understanding Regarding Urban Water Conservation in California," dated September 1991, may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).

- (k) Urban water suppliers that rely upon a wholesale agency for a source of water, shall provide the wholesale agency with water use projections from that agency for that source of water in five-year increments to 20 years or as far as data is available. The wholesale agency shall provide information to the urban water supplier for inclusion in the urban water supplier's plan that identifies and quantifies, to the extent practicable, the existing and planned sources of water as required by subdivision (b), available from the wholesale agency to the urban water supplier over the same five-year increments, and during various water-year types in accordance with subdivision (c). An urban water supplier may rely upon water supply information provided by the wholesale agency in fulfilling the plan informational requirements of subdivisions (b) and (c), including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.

10631.5. The department shall take into consideration whether the urban water supplier is implementing or scheduled for implementation, the water demand management activities that the urban water supplier identified in its urban water management plan, pursuant to Section 10631, in evaluating applications for grants and loans made available pursuant to Section 79163. The urban water supplier may submit to the department copies of its annual reports and other relevant documents to assist the department in determining whether the urban water supplier is implementing or scheduling the implementation of water demand management activities.

10632. The plan shall provide an urban water shortage contingency analysis which includes each of the following elements which are within the authority of the urban water supplier:

- (a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.
- (b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.
- (c) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including,

but not limited to, a regional power outage, an earthquake, or other disaster.

- (d) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.
- (e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.
- (f) Penalties or charges for excessive use, where applicable.
- (g) An analysis of the impacts of each of the actions and conditions described in subdivisions (a) to (f), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.
- (h) A draft water shortage contingency resolution or ordinance.
- (i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

10633. The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of the plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area, and shall include all of the following:

- (a) A description of the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.
- (b) A description of the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.
- (c) A description of the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.

- (d) A description and quantification of the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.
- (e) The projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.
- (f) A description of actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water used per year.
- (g) A plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems, to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

10634. The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.

Article 2.5 Water Service Reliability

10635.

- (a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

- (b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.
- (c) Nothing in this article is intended to create a right or entitlement to water service or any specific level of water service.
- (d) Nothing in this article is intended to change existing law concerning an urban water supplier's obligation to provide water service to its existing customers or to any potential future customers.

Article 3. Adoption and Implementation of Plans

10640. Every urban water supplier required to prepare a plan pursuant to this part shall prepare its plan pursuant to Article 2 (commencing with Section 10630).

The supplier shall likewise periodically review the plan as required by Section 10621, and any amendments or changes required as a result of that review shall be adopted pursuant to this article.

10641. An urban water supplier required to prepare a plan may consult with, and obtain comments from, any public agency or state agency or any person who has special expertise with respect to water demand management methods and techniques.

10642. Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan. Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its service area. After the hearing, the plan shall be adopted as prepared or as modified after the hearing.

10643. An urban water supplier shall implement its plan adopted pursuant to this chapter in accordance with the schedule set forth in its plan.

10644.

- (a) An urban water supplier shall file with the department and any city or county within which the supplier provides water supplies a copy of its plan no later than 30 days after adoption. Copies of amendments or changes to the

plans shall be filed with the department and any city or county within which the supplier provides water supplies within 30 days after adoption.

- (b) The department shall prepare and submit to the Legislature, on or before December 31, in the years ending in six and one, a report summarizing the status of the plans adopted pursuant to this part. The report prepared by the department shall identify the outstanding elements of the individual plans. The department shall provide a copy of the report to each urban water supplier that has filed its plan with the department. The department shall also prepare reports and provide data for any legislative hearings designed to consider the effectiveness of plans submitted pursuant to this part.

10645. Not later than 30 days after filing a copy of its plan with the department, the urban water supplier and the department shall make the plan available for public review during normal business hours.

CHAPTER 4. MISCELLANEOUS PROVISIONS

10650. Any actions or proceedings to attack, review, set aside, void, or annul the acts or decisions of an urban water supplier on the grounds of noncompliance with this part shall be commenced as follows:

- (a) An action or proceeding alleging failure to adopt a plan shall be commenced within 18 months after that adoption is required by this part.
- (b) Any action or proceeding alleging that a plan, or action taken pursuant to the plan, does not comply with this part shall be commenced within 90 days after filing of the plan or amendment thereto pursuant to Section 10644 or the taking of that action.

10651. In any action or proceeding to attack, review, set aside, void, or annul a plan, or an action taken pursuant to the plan by an urban water supplier on the grounds of noncompliance with this part, the inquiry shall extend only to whether there was a prejudicial abuse of discretion. Abuse of discretion is established if the supplier has not proceeded in a manner required by law or if the action by the water supplier is not supported by substantial evidence.

10652. The California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) does not apply to the preparation and adoption of plans pursuant to this part or to the implementation of actions taken pursuant to Section 10632. Nothing in this part shall be interpreted as exempting from the California Environmental Quality Act any project that would significantly affect water supplies for fish and wildlife, or any project for implementation of the plan, other than projects implementing Section 10632, or any project for expanded or additional water supplies.

10653. The adoption of a plan shall satisfy any requirements of state law, regulation, or order, including those of the State Water Resources Control Board and the Public Utilities Commission, for the preparation of water management plans or conservation plans; provided, that if the State Water Resources Control Board or the Public Utilities Commission requires additional information concerning water conservation to implement its existing authority, nothing in this part shall be deemed to limit the board or the commission in obtaining that information. The requirements of this part shall be satisfied by any urban water demand management plan prepared to meet federal laws or regulations after the effective date of this part, and which substantially meets the requirements of this part, or by any existing urban water management plan which includes the contents of a plan required under this part.

10654. An urban water supplier may recover in its rates the costs incurred in preparing its plan and implementing the reasonable water conservation measures included in the plan. Any best water management practice that is included in the plan that is identified in the "Memorandum of Understanding Regarding Urban Water Conservation in California" is deemed to be reasonable for the purposes of this section.

10655. If any provision of this part or the application thereof to any person or circumstances is held invalid, that invalidity shall not affect other provisions or applications of this part which can be given effect without the invalid provision or application thereof, and to this end the provisions of this part are severable.

10656. An urban water supplier that does not prepare, adopt, and submit its urban water management plan to the department in accordance with this part, is ineligible to receive funding pursuant to Division 24 (commencing with Section 78500) or Division 26 (commencing with Section 79000), or receive drought assistance from the state until the urban water management plan is submitted pursuant to this article.

10657.

- (a) The department shall take into consideration whether the urban water supplier has submitted an updated urban water management plan that is consistent with Section 10631, as amended by the act that adds this section, in determining whether the urban water supplier is eligible for funds made available pursuant to any program administered by the department.
- (b) This section shall remain in effect only until January 1, 2006, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2006, deletes or extends that date.

APPENDIX B

MANDATORY CONSERVATION PLAN

Chapter 13.36 WATER CONSERVATION

Sections:

13.36.010 Established.

13.36.020 Policy.

13.36.030 Purpose.

13.36.040 Definitions.

13.36.050 Scope.

13.36.060 No water waste policy.

13.36.070 Phases.

13.36.080 Phase implementation and exemptions.

13.36.090 Enforcement.

13.36.100 Reports.

13.36.110 Rules and Regulations.

13.36.010 Established.

There is established a city mandatory water conservation plan. (Prior code § 9-150)

13.36.020 Policy.

It is declared that, because of the conditions prevailing in the city and in the areas of this state and elsewhere from which the city obtains its water supplies, because water needs are projected to increase in the future and while water is a renewable resource, it is a finite one, the general welfare requires that the water resources available to the city be put to the maximum beneficial use to the extent to which they are capable, and that the waste or unreasonable use or unreasonable method of use of water be prevented, and the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interests of the people of the city and for the public welfare. (Ord. 5112 § 61, 1996: prior code § 9-151)

13.36.030 Purpose.

The purpose of this chapter is to provide a mandatory water conservation plan to minimize the effect of a shortage of water to the customers of the city and, by means of this chapter, to adopt provisions that will significantly reduce the consumption of water over an extended period of time thereby extending the available water required for the customers of the city, to protect basic human health, safety and quality of life, to share the impacts caused by the water shortage in accord with the severity of the water shortage, and to minimize the hardship to the city and the general public to the greatest extent possible. (Ord. 5112 § 62, 1996: prior code § 9-153)

13.36.040 Definitions.

The following words and phrases, whenever used in this chapter, shall be construed as defined in this section unless from the context a different meaning is intended or unless a different meaning is specifically defined within individual sections of this chapter:

"California-friendly plantings" or "California-friendly landscaping" means those landscape plantings, including, but not limited to, trees, shrubs, perennials,

groundcovers, ornamental grasses and California-native plants, that require low water use for maintenance and that are included in the Metropolitan Water District's California Friendly Garden Guide catalogue, available at <http://www.bewaterwise.com>.

"Dining establishment" means a catering business or a restaurant, hotel, cafe, cafeteria or other public place where food or drink is sold, served or offered for sale.

"Low income individual" means any individual that is eligible for participation in the division's public benefit charge low-income program.

"Potable water" shall be defined as set forth in Section 13.38.020 of this code.

"Process water" means water used to manufacture, alter, convert, clean, heat or cool a product, or the equipment used for such purpose; water used for plant and equipment washing and for transporting the raw materials and products; and water used to grow and maintain trees and plants for sale or installation. Process water does not include water used in the preparation of food or drinks.

"Recycled water" shall be defined as set forth in Section 13.38.020 of this code.

(Ord. No. 5660, § 3, 6-30-2009; Ord. 5112 § 63, 1996; prior code § 9-154)

13.36.050 Scope.

The provisions of this chapter shall apply to all water customers and property served water by the department wherever situated, and shall also apply to all property and facilities owned, maintained, operated or under the jurisdiction of the various officers, boards, departments or agencies of the city.

(Ord. No. 5660, § 4, 6-30-2009; prior code § 9-156)

13.36.060 No water waste policy.

There is in effect at all times in the city a "no water waste" policy as set forth herein. Except as otherwise provided in this chapter, at no time shall any person make, cause, use, or permit the use of water from the department for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this chapter or in an amount in excess of that use permitted by the conservation phase then in effect pursuant to action taken by the city council in accordance with the provisions of this chapter.

A. Water Use Restrictions.

1. Hose Washing. Potable water shall not be used for hose washing of sidewalks, walkways, driveways, or parking areas, tennis courts, patios, porches or other paved areas, except (i) where necessary to alleviate safety or sanitary hazards, and then only by use of a handheld bucket or similar container or a hand-held hose equipped with a water shut-off device; (ii) when using a low-volume high-pressure cleaning machine or (iii) that flammable or other dangerous substances may be disposed of

by direct hose flushing by public safety officers for the benefit of public health and safety.

2. Overspray or Runoff. There shall be no use of water for any purpose which results in overspray, runoff in flooding or runoff onto hardscape, driveways, streets, adjacent lands or into gutters.

3. Decorative Fountains. Except for water play features in city parks, no water shall be used to clean, fill or maintain levels in decorative fountains or similar structures unless such water is part of a recirculation system or unless such water is recycled water, which must be clearly posted.

4. Leaks. No water customer of the department shall permit water to leak from any facility on his premises; failure to effect the repair of any leak, within seventy-two (72) hours after the customer is notified of or discovers the leak, shall subject said customer to all penalties provided herein for waste of water.

5. Irrigation Times.

a. No landscaped or vegetated areas, whether or not such areas include California-friendly plantings and including, but not limited to, grass, lawn, groundcover, shrubbery, annual and perennial plants, crops, and trees, including in golf courses, cemeteries, parks and school areas, shall be watered, sprinkled, or irrigated between the hours of nine a.m. and six p.m., except for very short periods of time for the express purpose of adjusting or repairing an irrigation system. Irrigation using recycled water is exempt from this limitation provided such usage is permitted by law and is clearly posted.

b. No landscaped or vegetated areas, whether or not such areas include California-friendly plantings, shall be watered, sprinkled or irrigated on days when the wind is blowing causing overspray and on days when it is raining.

6. Vehicle Washing. The washing of commercial and noncommercial privately owned automobiles, trucks, trailers, motor homes, boats, busses, airplanes and other types of vehicles is restricted to use of a hand-held bucket and quick rinses using a hose with a positive shutoff nozzle. Exceptions: the use of wash water which is on the immediate premises of a commercial car wash or commercial service station; or where health, safety and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles which transport food and perishables.

7. Commercial Car Wash and Laundry Systems. The installation of a nonrecirculating water system for any new commercial conveyor car wash system or new commercial laundry system is prohibited. Effective July 1, 2014, no commercial conveyor car wash may use a nonrecirculating water system in its operation.

8. Water for Construction Purposes. Water for construction purposes including, but not limited to, debrushing of vacant land, compaction of fills and pads, trench backfill and other construction uses, shall only be used in an efficient manner which will not result in runoff. Recycled water shall be used whenever it is an available and feasible alternative source of water.

9. Fire Hydrants. Unless a permit has been obtained in accordance with Section 13.04.080 of this code, the use of potable water from fire hydrants shall be limited to firefighting, related activities or other activities immediately necessary to maintain the health, safety and welfare of the residents of the city.

10. Dining Establishments.

a. No dining establishment shall serve drinking water to any customer unless expressly requested by the customer.

b. Effective January 1, 2010, dining establishments are prohibited from using nonwater-conserving pre-rinse dishwashing spray valves.

11. Conservation Notices. Dining establishments, hotels, motels and other commercial lodging establishments are required to post notices informing their guests about the city's "no water waste policy" and urging guests to conserve water.

12. Laundry Service. Hotels, motels and other commercial lodging establishments are required to post notices giving their guests the option of not laundering towels and linens daily.

13. Single Pass Cooling Systems. The installation of a single pass cooling system is prohibited in any building requesting new or expanded water service from the department.

14. Process Water. Process water shall be recycled to the greatest extent possible.

B. The water use restrictions set forth in paragraph (A) of this section shall be in effect at all times, except that in the event that the city council declares the need for conservation as set forth in Section 13.36.080, the water use restrictions shall be amended and the use of water shall be further restricted as required by the phase of conservation then in effect, as described in Section 13.36.070.

(Ord. No. 5675, § 1, 10-27-2009; Ord. No. 5660, § 5, 6-30-2009; Ord. 5112 § 64, 1996)

13.36.070 Phases.

A. Phase I.

1. Water Use Restrictions.

a. No use of water may be made contrary to the provisions of the no water waste policy set forth in Section 13.36.060(A)(1) through (14). During conservation phase I, the division of parks, recreation and community services will review its irrigation system for possible efficiencies.

B. Phase II.

1. Water Use Restrictions.

a. No use of water may be made contrary to the no water waste policy set forth in Section 13.36.060(A)(1) through(14).

b. During conservation phase II, the following additional water use restrictions shall also be in effect:

i. Landscape Irrigation Days and Durations. The use of potable water to irrigate any landscaped or vegetated areas shall only be permitted on Tuesdays, Thursdays and Saturdays, for no more than ten (10) minutes per watering station per permitted irrigation day. (a) Exceptions.

(1) The director of parks, recreation and community services may establish different irrigation days for any or all city park land, provided that such irrigation shall be limited to three (3) days per week and ten (10) minutes per watering station per permitted irrigation day, unless otherwise exempted by this chapter.

(2) Irrigation by a drip irrigation system or with low-flow sprinkler heads that require additional watering time are exempt from the ten-minute time limitation, but such irrigation shall be limited to the permitted irrigation days and times of day.

(3) Irrigation with a hand-held bucket or similar container, or a hand-held hose equipped with a water shut off nozzle or device are exempt from the ten-minute time limitation and from the restriction on landscape irrigation days set forth in subsection (B)(1)(b)(i) of this section, provided that such irrigation occurs before nine a.m. or after six p.m.

(4) The restriction on landscape irrigation days and durations shall not apply to: (a) an area designated by the fire chief or city engineer as an area that must be watered for fire prevention or for erosion control; (b) commercial nurseries and commercial growers that water to the extent necessary to sustain plants, trees, shrubs, crops or other vegetation intended for lawful commercial sale; (c) watering to the extent necessary to maintain vegetation, including fruit trees and shrubs, intended for consumption; (d) watering to the extent necessary to establish newly-planted landscaping, during the first two (2) weeks after such landscaping has been planted and (e) irrigation with recycled water in a manner that complies with all applicable laws.

ii. Landscaping Projects. Except for California-friendly landscaping, there shall be a deferral of all new or retrofit landscaping or turf planting requiring potable water service for irrigation. However, the deferral shall not be required for any new or retrofit landscaping plans that have been approved in accordance with Chapter 30.47 of the code prior to the date of adoption of a resolution implementing conservation phase II, III, IV or V, as applicable.

iii. New and Retrofit City and Agency Landscapes. Except for California-friendly landscaping, there shall be a deferral of all new and retrofit landscape and turf planting which requires potable water service for irrigation, on any property owned, controlled or maintained by the city or the redevelopment agency. However, the deferral shall not be required for any new or retrofit landscaping plans that have been approved in accordance with Chapter 30.47 of the code prior to the date of adoption of a resolution implementing conservation phase II, III, IV or V, as applicable.

C. Phase III.

1. Water Use Restrictions.

a. Except as further restricted or as amended by this subsection (C), no use of water may be made contrary to the provisions of the no water waste policy set forth in Section 13.36.060(A)(1) through (14) and conservation phase II as set forth in subsection (B) of this section.

b. During conservation phase III, the following additional water use restrictions shall also be in effect:

i. Water play features. The operation of city-owned water play features such as splash fountains in children's playgrounds, but not including swimming pools or wading pools, shall be limited to no more than five (5) hours per day.

ii. Landscape irrigation days and durations. The use of potable water to irrigate any landscaped or vegetated areas shall only be permitted on Tuesdays and Saturdays, for no more than ten (10) minutes per watering station per permitted irrigation day.

(a) Exceptions.

(1) The director of parks and recreational services may establish different irrigation days for any or all city park land, provided that such irrigation shall be limited to three (3) days per week and ten (10) minutes per watering station per permitted irrigation day, unless otherwise exempted by this chapter.

(2) Irrigation by a drip irrigation system or with low-flow sprinkler heads that require additional watering time are exempt from the time limitation, but such irrigation shall be limited to the permitted irrigation days and times of day.

(3) Irrigation with a hand-held bucket or similar container, or a hand-held hose equipped with a water shut off nozzle or device are exempt from the ten-minute time limitation, but shall be limited to the permitted irrigation days and times of day.

(4) The restriction on landscape irrigation days and durations shall not apply to: (a) an area designated by the fire chief or city engineer as an area that must be watered for fire prevention or for erosion control; (b) commercial nurseries and commercial growers that water to the extent necessary to sustain plants, trees, shrubs, crops or other vegetation intended for lawful commercial sale; (c) watering to the extent necessary to maintain vegetation, including fruit trees and shrubs, intended for consumption; (d) watering to the extent necessary to establish newly-planted landscaping, during the first two (2) weeks after such landscaping has been planted and (e) irrigation with recycled water in a manner that complies with all applicable laws.

D. Phase IV.

1. Water Use Restrictions.

a. Except as further restricted or as amended by this subsection (D), no use of water may be made contrary to the provisions of Sections 13.36.060(A)(1) through (14) and conservation phases II and III as set forth in subsections (B) and (C) of this section.

b. During conservation phase IV, the following additional water use restriction shall also be in effect:

i. Decorative Fountains. The use of potable water to clean, fill or maintain levels in decorative exterior fountains or similar exterior structures is prohibited.

ii. Lakes or Ponds. The use of potable water to fill decorative lakes or ponds is prohibited, except to the extent necessary to maintain aquatic life.

iii. Landscape Irrigation Days and Durations. The use of potable water to irrigate any landscaped or vegetated areas shall only be permitted on Saturdays, for no more than fifteen (15) minutes per watering station.

(a) Exceptions.

(1) The director of parks, recreation and community services may establish different irrigation days for any or all city park land, provided that such irrigation shall be limited to three (3) days per week and ten (10) minutes per watering station per permitted irrigation day, unless otherwise exempted by this chapter.

(2) Irrigation by a drip irrigation system or with low-flow sprinkler heads that require additional watering time are exempt from the time limitation, but such irrigation shall be limited to the permitted irrigation days and times of day.

(3) Irrigation with a hand-held bucket or similar container, or a hand-held hose equipped with an automatic shut off nozzle or device are exempt from the fifteen-minute time limitation, but shall be limited to the permitted irrigation days and times of day.

(4) The restriction on landscape irrigation days and durations shall not apply to: (a) an area designated by the fire chief or city engineer as an area that must be watered for fire prevention or for erosion control; (b) commercial nurseries and commercial growers that water to the extent necessary to sustain plants, trees, shrubs, crops or other vegetation intended for lawful commercial sale; (c) watering to the extent necessary to maintain vegetation, including fruit trees and shrubs, intended for consumption and (d) irrigation with recycled water in a manner that complies with all applicable laws.

E. Phase V.

1. Water Use Restrictions.

a. Except as further restricted or as amended by this subsection (E), no use of water may be made contrary to the provisions of the no water waste policy set forth in Section 13.36.060(A)(1) through (14) and conservation phases II, III, and IV as set forth in subsections (B), (C) and (D) of this section.

b. During conservation phase V, the following additional water use restriction shall also be in effect:

i. Decorative Fountains. The use of potable water to clean, fill or maintain levels in decorative fountains or similar structures, whether such fountains or structures are on the interior or exterior of a site, is prohibited.

ii. Water Play Features. The operation of city-owned water play features such as splash fountains in children's playgrounds, but not including swimming pools or wading pools, shall be limited to no more than four (4) hours per day.

iii. Landscape Irrigation Days and Durations. The use of potable water to irrigate any landscaped or vegetated areas shall only be permitted on the first and third Saturdays of each month. Irrigation is limited to the deep irrigation of trees and shrubs for no more than twenty (20) minutes per permitted watering station per irrigation day.

(a) Exceptions.

(1) The director of parks, recreation and community services may establish different irrigation days for any or all city park land, provided that such irrigation shall be limited to three (3) days per week and ten (10) minutes per watering station per permitted irrigation day, unless otherwise exempted by this chapter. Irrigation of city park land shall not be limited to the deep irrigation of trees and shrubs.

(2) Irrigation by a drip irrigation system that requires additional watering time is exempt from the time limitation, but such irrigation shall be limited to the permitted irrigation days and times of day.

(3) Irrigation of trees or shrubs with a hand-held bucket or similar container, or a hand-held hose equipped with an automatic shut off nozzle or device are exempt from the twenty-minute time limitation, but shall be limited to the permitted irrigation days and times of day.

(4) The restriction on landscape irrigation days and durations shall not apply to: (a) an area designated by the fire chief or city engineer as an area that must be watered for fire prevention or for erosion control; (b) commercial nurseries and commercial growers that water to the extent necessary to sustain plants, trees, shrubs, crops or other vegetation intended for lawful commercial sale; (c) watering to the extent necessary to maintain vegetation, including fruit trees and shrubs, intended for consumption and (d) irrigation with recycled water in a manner that complies with all applicable laws.

iv. Vehicle Washing. There shall be no washing of any commercial or noncommercial privately-owned automobile, truck, trailer, motor home, boat, bus, airplane or other types of vehicles, except by the use of wash water which is on the immediate premises of a commercial car wash or commercial service station; or where health, safety and welfare of the public is contingent upon frequent vehicle cleaning, such as garbage trucks and vehicles which transport food and perishables.

F. Exception. The prohibited use of water from the department provided for by Section 13.36.060(A)(1) through (14) and subsections (A)(1), (B)(1), (C)(1), (D)(1) and (E)(1) of this section are not applicable to that use of water necessary to preserve the public health and safety or for essential government services such as police, fire, and other similar emergency services.

(Ord. No. 5675, § 2, 10-27-2009; Ord. No. 5660, § 6, 6-30-2009; Ord. 5112 § 65, 1996; prior code § 9-157)

13.36.080 Phase implementation and exemptions.

A. The department shall monitor and evaluate the projected supply and demand for water by its customers monthly, and shall recommend to the city manager the extent of the conservation required by the customers of the department in order for the department to prudently plan for and supply water to its customers. The city manager shall, in turn, notify and recommend to the city council the appropriate phase of water conservation to be implemented. Such phase implementation shall be made by council resolution. Any such resolution shall include such findings or other determinations as may be required to comply with the California Environmental Quality Act. Such phase implementation and the water use restrictions for the declared conservation phase shall become operable immediately upon the effective date of the resolution of the council and shall be published once in a daily newspaper of general circulation. Each new customer of the department shall be provided with a copy of said prohibited use provisions at the time of application for service.

B. Any customer of the department may prospectively apply to the general manager for a modification of, or an exemption from, the water use restrictions set forth in this chapter based upon the unique needs and circumstances of the customer or his or her premises. The general manager may grant such modifications or exemptions, provided that such modifications or exemptions are consistent with the purpose and intent of this chapter.

(Ord. No. 5675, § 3, 10-27-2009; Ord. No. 5660, § 7, 6-30-2009; Ord. 5112 § 66, 1996; prior code § 9-158)

13.36.090 Enforcement.

A. Penalties. It is unlawful for any customer of the department to fail to comply with any of the provisions of this chapter. The penalties set forth in this section shall be additional to those penalties provided in any other section of this code. The penalties for failure to comply with any of the provisions of this chapter shall be as follows:

1. For the first observed or reported violation of any of the provisions of subsections A.1. through 14. of Section 13.36.060 and subsections A.1., B.1, C.1., D.1. or E.1. of Section 13.36.070, in accordance with the applicable water conservation phase in effect at the time of the violation, the department shall issue a written courtesy notice of the fact of such violation to the customer and a written copy of Chapter 13.36 of this title.

2. Any subsequent violation of any of the provisions of subsections A.1. through 14. of Section 13.36.060 and subsections A.1., B.1., C.1., D.1. or E.1. of Section

13.36.070, in accordance with the applicable water conservation phase in effect at the time of the violation, shall be punishable as an infraction in accordance with Chapter 1.20 of the code.

3. In addition to the penalties set forth in Chapter 1.20 of the code, the city may pursue any available civil remedies and criminal penalties, including, but not limited to, seek a court order permitting the installation of a flow-restricting device and/or disconnection of water service on the service of the customer at the premises at which the violation occurred or is occurring, together with any and all costs incurred by the city as a result of the waste of water, including, but not limited to, attorneys' fees, the costs of installation and removal of said flow restrictor and the cost of disconnection and restoration of service.

B. The general manager, or his or her designee, may enter into a written agreement to resolve any violation provided that such agreement is consistent with the purpose and intent of this chapter.

C. Reservation of Rights. The rights of the department hereunder shall be cumulative to any other rights of the department, including, but not limited to, its right to discontinue service.

(Ord. No. 5660, §§ 8, 9, 6-30-2009; Ord. 5112 § 67, 1996: prior code § 9-159)

13.36.100 Reports.

A. All commercial and industrial customers of the department using twenty-five thousand (25,000) billing units per year or more shall submit a water conservation plan to the city manager's office and the general manager. These users shall submit quarterly to the city manager's office and the general manager a report on the progress of their conservation plans.

B. All city departments shall submit to the city manager and the general manager an annual public report on their water conservation efforts. The reports are [to] present the level of performance compared to their water conservation plans.

(Ord. No. 5660, §§ 10, 11, 6-30-2009; Ord. 5112 § 68, 1996; prior code § 9-160)

13.36.110 Rules and Regulations.

The general manager shall have the power to establish rules and regulations consistent with the provisions of this Chapter 13.36 for the administration of the provisions of this chapter.

(Ord. No. 5660, § 12, 6-30-2009)

APPENDIX C

**COURT JUDGMENT ON GROUNDWATER RIGHTS IN THE
SAN FERNANDO AND VERDUGO BASINS**

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7
8 SUPERIOR COURT OF THE STATE OF CALIFORNIA
9 FOR THE COUNTY OF LOS ANGELES
10

11 THE CITY OF LOS ANGELES,)
12 Plaintiff,) No. 650079
13 vs.) JUDGMENT
14 CITY OF SAN FERNANDO, ET AL.)
15 Defendants.)
16

17
18 There follows by consecutive paging a Table of Contents (pages
19 i. to vi.), Recitals (page 1), Definitions and List of
20 Attachments (pages 1 to 6), Designation of Parties (page 6),
21 Declaration re Geology and Hydrology (pages 6 to 12),
22 Declaration of Rights (pages 12 to 21), Injunctions (pages 21
23 to 22), Continuing Jurisdiction (page 23), Watermaster (pages
24 23 to 29), Physical Solution (pages 29 to 34), and
25 Miscellaneous Provisions (pages 34 to 35), and Attachments
26 (pages 36 to 46). Each and all of said several parts
27 constitute a single integrated Judgment herein.
28

1 1. RECITALS

2 This matter was originally tried before the Honorable Edmund M.
3 Moor, without jury, commencing on March 1, 1966, and concluding with
4 entry of Findings, Conclusions and Judgment on March 14, 1968, after
5 more than 181 trial days. Los Angeles appealed from said judgment and
6 the California Supreme Court, by unanimous opinion, (14 Cal. 3d 199)
7 reversed and remanded the case; after trial of some remaining issues
8 on remand, and consistent with the opinion of the Supreme Court, and
9 pursuant to stipulations, the Court signed and filed Findings of Fact
10 and Conclusions of Law. Good cause thereby appearing,

11 IT IS ORDERED, ADJUDGED AND DECREED:

12
13 2. DEFINITIONS AND ATTACHMENTS

14 2.1 Definitions of Terms. As used in this Judgment, the
15 following terms shall have the meanings herein set forth:

16 [1] Basin or Ground Water Basin -- A subsurface geologic
17 formation with defined boundary conditions, containing a ground
18 water reservoir, which is capable of yielding a significant
19 quantity of ground water.

20 [2] Burbank -- Defendant City of Burbank.

21 [3] Crescenta Valley -- Defendant Crescenta Valley County
22 Water district.

23 [4] Colorado Aqueduct -- The aqueduct facilities and system
24 owned and operated by MWD for the importation of water from the
25 Colorado River to its service area.

26 [5] Deep Rock -- Defendant Evelyn M. Pendleton, dba Deep
27 Rock Artesian Water Company.
28

1 [6] Delivered Water -- Water utilized in a water supply
2 distribution system, including reclaimed water.

3 [7] Eagle Rock Basin -- The separate ground water basin
4 underlying the area shown as such on Attachment "A".

5 [8] Extract or Extraction -- To produce ground water, or
6 its production, by pumping or any other means.

7 [9] Fiscal Year -- July 1 through June 30 of the following
8 calendar year.

9 [10] Foremost -- Defendant Foremost Foods Company, successor
10 to defendant Sparkletts Drinking Water Corp.

11 [11] Forest Lawn -- Collectively, defendants Forest Lawn
12 Cemetery Association, Forest Lawn Company, Forest Lawn Memorial-
13 Park Association, and American Security and Fidelity Corporation.

14 [12] Gage F-57 -- The surface stream gaging station operated
15 by Los Angeles County Flood Control District and situated in Los
16 Angeles Narrows immediately upstream from the intersection of the
17 Los Angeles River and Arroyo Seco, at which point the surface
18 outflow from ULARA is measured.

19 [13] Glendale -- Defendant City of Glendale.

20 [14] Ground Water -- Water beneath the surface of the ground
21 and within the zone of saturation.

22 [15] Hersch & Plumb -- Defendants David and Eleanor A.
23 Hersch and Gerald B. and Lucille Plumb, successors to Wellesley
24 and Duckworth defendants.

25 [16] Import Return Water -- Ground water derived from
26 percolation attributable to delivered imported water.

1 [17] Imported Water -- Water used within ULARA, which is
2 derived from sources outside said watershed. Said term does not
3 include inter-basin transfers wholly within ULARA.

4 [18] In Lieu Storage -- The act of accumulating ground water
5 in a basin by intentional reduction of extractions of ground
6 water which a party has a right to extract.

7 [19] Lockheed -- Defendant Lockheed Aircraft Corporation.

8 [20] Los Angeles -- Plaintiff City of Los Angeles, acting by
9 and through its Department of Water and Power.

10 [21] Los Angeles Narrows -- The physiographic area northerly
11 of Gage F-57 bounded on the east by the San Rafael and Repetto
12 Hills and on the west by the Elysian Hills, through which all
13 natural outflow of the San Fernando Basin and the Los Angeles
14 River flow en route to the Pacific Ocean.

15 [22] MWD -- The Metropolitan Water District of Southern
16 California, a public agency of the State of California.

17 [23] Native Safe Yield -- That portion of the safe yield of
18 a basin derived from native waters.

19 [24] Native Waters -- Surface and ground waters derived from
20 precipitation within ULARA.

21 [25] Overdraft -- A condition which exists when the total
22 annual extractions of ground water from a basin exceed its safe
23 yield, and when any temporary surplus has been removed.

24 [26] Owens-Mono Aqueduct -- The aqueduct facilities owned
25 and operated by Los Angeles for importation to ULARA water from
26 the Owens River and Mono Basin watersheds easterly of the Sierra-
27 Nevada in Central California.

1 [27] Private Defendants -- Collectively, all of those
2 defendants who are parties, other than Glendale, Burbank, San
3 Fernando and Crescenta Valley.

4 [28] Reclaimed Water -- Water which, as a result of
5 processing of waste water, is made suitable for and used for a
6 controlled beneficial use.

7 [29] Regulatory Storage Capacity -- The volume of storage
8 capacity of San Fernando Basin which is required to regulate the
9 safe yield of the basin, without significant loss, during any
10 long-term base period of water supply.

11 [30] Rising Water -- The effluent from a ground water basin
12 which appears as surface flow.

13 [31] Rising Water Outflow -- The quantity of rising water
14 which occurs within a ground water basin and does not rejoin the
15 ground water body or is not captured prior to flowing past a
16 point of discharge from the basin.

17 [32] Safe Yield - The maximum quantity of water which can be
18 extracted annually from a ground water basin under a given set of
19 cultural conditions and extraction patterns, based on the long-
20 term supply, without causing a continuing reduction of water in
21 storage.

22 [33] San Fernando -- Defendant City of San Fernando.

23 [34] San Fernando Basin -- The separate ground water basin
24 underlying the area shown as such on Attachment "A".

25 [35] Sportsman's Lodge -- Defendant Sportsman's Lodge
26 Banquet Association.

27 [36] Stored Water -- Ground water in a basin consisting of
28 either (1) imported or reclaimed water which is intentionally

1 spread, or (2) safe yield water which is allowed to accumulate by
2 In Lieu Storage. Said ground waters are distinguished and
3 separately accounted for in a ground water basin, notwithstanding
4 that the same may be physically commingled with other waters in
5 the basin.

6 [37] Sylmar Basin -- The separate ground water basin
7 underlying the area indicated as such on Attachment "A".

8 [38] Temporary Surplus - The amount of ground water which
9 would be required to be removed from a basin in order to avoid
10 waste under safe yield operation.

11 [39] Toluca Lake -- Defendant Toluca Lake Property Owners
12 Association.

13 [40] ULARA or Upper Los Angeles River Area - The Upper Los
14 Angeles River watershed, being the surface drainage area of the
15 Los Angeles River tributary to Gage F-57.

16 [41] Underlying Pueblo Waters -- Native ground waters in the
17 San Fernando Basin which underlie safe yield and stored waters.

18 [42] Valhalla -- Collectively, Valhalla Properties, Valhalla
19 Memorial Park, Valhalla Mausoleum Park.

20 [43] Van de Kamp -- Defendant Van de Kamp's Holland Dutch
21 Bakers, Inc.

22 [44] Verdugo Basin -- The separate ground water basin
23 underlying the area shown as such on Attachment "A".

24 [45] Water Year -- October 1 through September 30 of the
25 following calendar year.

26 Geographic Names, not herein specifically defined, are used to
27 refer to the places and locations thereof as shown on Attachment "A".
28

2.2 List of Attachments. There are attached hereto the following documents, which are by this reference incorporated in this Judgment and specifically referred to in the text hereof:

"A" -- Map entitled "Upper Los Angeles River Area", showing
Separate Basins therein.

"B" -- List of "Dismissed Parties".

"C" -- List of "Defaulted Parties".

"D" -- List of "Disclaiming Parties".

"E" -- List of "Prior Stipulated Judgments."

"F" -- List of "Stipulated Non-Consumptive or Minimal-Consumptive Use Practices."

"G" -- Map entitled "Place of Use and Service Area of Private Defendants."

"H" -- Map entitled "Public Agency Water Service Areas."

3. PARTIES

3.1 Defaulting and Disclaiming Defendants. Each of the defendants listed on Attachment "C" and Attachment "D" is without any right, title or interest in, or to any claim to extract ground water from ULARA or any of the separate ground water basins therein.

3.2 No Rights Other Than as Herein Declared. No party to this action has any rights in or to the waters of ULARA except to the extent declared herein.

4. DECLARATION RE GEOLOGY AND HYDROLOGY

4.1 Geology.

4.1.1 ULARA. ULARA (or Upper Los Angeles River Area), is the watershed or surface drainage area tributary to the Los

1 Angeles River at Gage F-57. Said watershed contains a total of
2 329,000 acres, consisting of approximately 123,000 acres of
3 valley fill area and 206,000 acres of hill and mountain area,
4 located primarily in the County of Los Angeles, with a small
5 portion in the County of Ventura. Its boundaries are shown on
6 Attachment "A". The San Gabriel Mountains form the northerly
7 portion of the watershed, and from them two major washes--the
8 Pacoima and the Tujunga--discharge southerly. Tujunga Wash
9 traverses the valley fill in a southerly direction and joins the
10 Los Angeles River, which follows an easterly course along the
11 base of the Santa Monica Mountains before it turns south through
12 the Los Narrows. The waters of Pacoima Wash as and when they
13 flow out of Sylmar Basin are tributary to San Fernando Basin.
14 Lesser tributary washes run from the Simi Hills and the Santa
15 Susana Mountains in the westerly portion of the watershed. Other
16 minor washes, including Verdugo Wash, drain the easterly portion
17 of the watershed which consists of the Verdugo Mountains, the
18 Elysian, San Rafael and Repetto Hills. Each of said washes is a
19 non-perennial stream whose flood flows and rising waters are
20 naturally tributary to the Los Angeles River. The Los Angeles
21 River within ULARA and most of said tributary natural washes have
22 been replaced, and in some instances relocated, by concrete-lined
23 flood control channels. There are 85.3 miles of such channels
24 within ULARA, 62% of which have lined concrete bottoms.

25 4.1.2 San Fernando Basin. San Fernando Basin is the major
26 ground water basin in ULARA. It underlies 112,047 acres and is
27 located in the area shown as such on Attachment "A". Boundary
28 conditions of the San Fernando Basin consist on the east and

1 northeast of alluvial contacts with non-waterbearing series along
2 the San Rafael Hills and Verdugo Mountains and the Santa Susana
3 Mountains and Simi Hills on the northwest and west and the Santa
4 Monica Mountains on the south. Water-bearing material in said
5 basin extends to at least 1000 feet below the surface. Rising
6 water outflow from the San Fernando Basin passes its downstream
7 and southerly boundary in the vicinity of Gage F-57, which is
8 located in Los Angeles Narrows about 300 feet upstream from the
9 Figueroa Street (Dayton Street) Bridge. The San Fernando Basin
10 is separated from the Sylmar Basin on the north by the eroded
11 south limb of the Little Tujunga Syncline which causes a break in
12 the ground water surface of about 40 to 50 feet.

13 4.1.3 Sylmar Basin. Sylmar Basin underlies 5,565 acres and
14 is located in the area shown as such on Attachment "A". Water-
15 bearing material in said basin extends to depths in excess of
16 12,000 feet below the surface. Boundary conditions of Sylmar
17 Basin consist of the San Gabriel Mountains on the north, a
18 topographic divide in the valley fill between the Mission Hills
19 and San Gabriel Mountains on the west, the Mission Hills on the
20 southwest, Upper Lopez Canyon Saugus Formation on the east, along
21 the east bank of Pacoima Wash, and the eroded south limb of the
22 Little Tujunga Syncline on the south.

23 4.1.4 Verdugo Basin. Verdugo Basin underlies 4,400 acres
24 and is located in the area shown as such on Attachment "A".
25 Boundary conditions of Verdugo Basin consist of the San Gabriel
26 Mountains on the north, the Verdugo Mountains on the south and
27 southwest, the San Rafael Hills on the southeast and the
28 topographic divide on the east between the drainage area that is

1 tributary to the Tujunga Wash to the west and Verdugo Wash to the
2 east, the ground water divide on the west between Monk Hill-
3 Raymond Basin and the Verdugo Basin on the east and a submerged
4 dam constructed at the mouth of Verdugo Canyon on the south.

5 4.1.5 Eagle Rock Basin. Eagle Rock Basin underlies 807
6 acres and is located in the area shown as such on Attachment "A".
7 Boundary conditions of Eagle Rock Basin consist of the San Rafael
8 Hills on the north and west and the Repetto Hills on the east and
9 south with a small alluvial area to the southwest consisting of a
10 topographic divide.

11 4.2 Hydrology.

12 4.2.1 Water Supply. The water supply of ULARA consists of
13 native waters, derived from precipitation on the valley floor and
14 runoff from the hill and mountain areas, and of imported water
15 from outside the watershed. The major source of imported water
16 has been from the Owens-Mono Aqueduct, but additional supplies
17 have been and are now being imported through MWD from its
18 Colorado Aqueduct and the State Aqueduct.

19 4.2.2 Ground Water Movement. The major water-bearing
20 formation in ULARA is the valley fill material bounded by hills
21 and mountains which surround it. Topographically, the valley-
22 fill area has a generally uniform grade in a southerly and
23 easterly direction with the slope gradually decreasing from the
24 base of the hills and mountains to the surface drainage outlet at
25 Gage F-57. The valley fill material is a heterogeneous mixture
26 of clays, silts, sand and gravel laid down as alluvium. The
27 valley fill is of greatest permeability along and easterly of
28 Pacoima and Tujunga Washes and generally throughout the eastern

1 portion of the valley fill area, except in the vicinity of
2 Glendale where it is of lesser permeability. Ground water occurs
3 mainly within the valley fill, with only negligible amounts
4 occurring in hill and mountain areas. There is no significant
5 ground water movement from the hill and mountain formations into
6 the valley fill. Available geologic data do not indicate that
7 there are any sources of native ground water other than those
8 derived from precipitation. Ground water movement in the valley
9 fill generally follows the surface topography and drainage except
10 where geologic or man-made impediments occur or where the natural
11 flow has been modified by extensive pumping.

12 4.2.3 Separate Ground Water Basins. The physical and
13 geologic characteristics of each of the ground water basins,
14 Eagle rock, Sylmar, Verdugo and San Fernando, cause impediments
15 to inter-basin ground water flow whereby there is created
16 separate underground reservoirs. Each of said basins contains a
17 common source of water supply to parties extracting ground water
18 from each of said basins. The amount of underflow from Sylmar
19 Basin, Verdugo Basin and Eagle Rock Basin to San Fernando Basin
20 is relatively small, and on the average has been approximately
21 540 acre feet per year from the Sylmar Basin; 80 acre feet per
22 year from Verdugo Basin; and 50 acre feet per year from Eagle
23 Rock Basin. Each has physiographic, geologic and hydrologic
24 differences, one from the other, and each meets the hydrologic
25 definition of "basin". The extractions of water in the
26 respective basins affect the other water users within that basin
27 but do not significantly or materially affect the ground water
28 levels in any of the other basins. The underground reservoirs of

Eagle Rock, Verdugo and Sylmar Basins are independent of one another and of the San Fernando Basin.

4.2.4 Safe Yield and Native Safe Yield. The safe yield and native safe yield, stated in acre feet, of the three largest basins for the year 1964-65 was as follows:

<u>Basin</u>	<u>Safe Yield</u>	<u>Native Safe Yield</u>
San Fernando	90,680	43,660
Sylmar	6,210	3,850
Verdugo	7,150	3,590

The safe yield of Eagle Rock Basin is derived from imported water delivered by Los Angeles. There is no measurable native safe yield.

4.2.5 Separate Basins -- Separate Rights. The rights of the parties to extract ground water within ULARA are separate and distinct as within each of the several ground water basins within said watershed.

4.2.6 Hydrologic Condition of Basins. The several basins within ULARA are in varying hydrologic conditions, which result in different legal consequences.

4.2.6.1 San Fernando Basin. The first full year of overdraft in San Fernando Basin was 1954-55. It remained in overdraft continuously until 1968, when an injunction herein became effective. Thereafter, the basin was placed on safe yield operation. There is no surplus ground water available for appropriation or overlying use from San Fernando Basin.

4.2.6.2 Sylmar Basin. Sylmar Basin is not in overdraft. There remains safe yield over and above the present reasonable beneficial overlying uses, from which

1 safe yield the appropriative rights of Los Angeles and San
2 Fernando may be and have been exercised.

3 4.2.6.3 Verdugo Basin. Verdugo Basin was in
4 overdraft for more than five consecutive years prior to
5 1968. Said basin is not currently in overdraft, due to
6 decreased extractions by Glendale and Crescenta Valley on
7 account of poor water quality. However, the combined
8 appropriative and prescriptive rights of Glendale and
9 Crescenta Valley are equivalent to the safe yield of the
10 Basin. No private overlying or appropriative rights exist
11 in Verdugo Basin.

12 4.2.6.4 Eagle Rock Basin. The only measure water
13 supply to Eagle Rock Basin is import return water by reason
14 of importations by Los Angeles. Extractions by Foremost and
15 Deep Rock under the prior stipulated judgments have utilized
16 the safe yield of Eagle Rock Basin, and have maintained
17 hydrologic equilibrium therein.

18 5. DECLARATION OF RIGHTS

19 5.1 Right to Native Waters.

20 5.1.1 Los Angeles River and San Fernando Basin.

21 5.1.1.1 Los Angeles' Pueblo Right. Los Angeles, as
22 the successor to all rights, claims and powers of the
23 Spanish Pueblo de Los Angeles in regard to water rights, is
24 the owner of a prior and paramount pueblo right to the
25 surface waters of the Los Angeles River and the native
26 ground waters of San Fernando Basin to meet its reasonable
27 beneficial needs and for its inhabitants.
28

1 5.1.1.2 Extent of Pueblo Right. Pursuant to said
2 pueblo right, Los Angeles is entitled to satisfy its needs
3 and those of its inhabitants within its boundaries as from
4 time to time modified. Water which is in fact used for
5 pueblo right purposes is and shall be deemed needed for such
6 purposes.

7 5.1.1.3 Pueblo Right -- Nature and Priority of
8 Exercise. The pueblo right of Los Angeles is a prior and
9 paramount right to all of the surface waters of the Los
10 Angeles River, and native ground water in San Fernando
11 Basin, to the extent of the reasonable needs and uses of Los
12 Angeles and its inhabitants throughout the corporate area of
13 Los Angeles, as its boundaries may exist from time to time.
14 To the extent that the Basin contains native waters and
15 imported waters, it is presumed that the first water
16 extracted by Los Angeles in any water year is pursuant to
17 its pueblo right, up to the amount of the native safe yield.
18 The next extractions by Los Angeles in any year are deemed
19 to be from import return water, followed by stored water, to
20 the full extent of Los Angeles' right to such import return
21 water and stored water. In the event of need to meet water
22 requirements of its inhabitants, Los Angeles has the
23 additional right, pursuant to its pueblo right, withdraw
24 temporarily from storage Underlying Pueblo Waters, subject
25 to an obligation to replace such water as soon as practical.

26 5.1.1.4 Rights of Other Parties. No other party to
27 this action has any right in or to the surface waters of the
28

1 Los Angeles River or the native safe yield of the San
2 Fernando Basin.

3 5.1.2 Sylmar Basin Rights.

4 5.1.2.1 No Pueblo Rights. The pueblo right of Los
5 Angeles does not extend to or include ground waters in
6 Sylmar Basin.

7 5.1.2.2 Overlying Rights. Defendants Moordigian
8 and Hersch & Plumb own lands overlying Sylmar Basin and have
9 a prior correlative right to extract native waters from said
10 Basin for reasonable beneficial uses on their said overlying
11 lands. Said right is appurtenant to said overlying lands
12 and water extracted pursuant thereto may not be exported
13 from said lands nor can said right be transferred or
14 assigned separate and apart from said overlying lands.

15 5.1.2.3 Appropriative Rights of San Fernando and
16 Los Angeles. San Fernando and Los Angeles own appropriative
17 rights, of equal priority, to extract and put to reasonable
18 beneficial use for the needs of said cities and their
19 inhabitants, native waters of the Sylmar Basin in excess of
20 the exercised reasonable beneficial needs of overlying
21 users. Said appropriative rights are:

22 San Fernando 3,580 acre feet

23 Los Angeles 1,560 acre feet.

24 5.1.2.4 No Prescription. The Sylmar Basin is not
25 presently in a state of overdraft and no rights by
26 prescription exist in said Basin against any overlying or
27 appropriative water user.

1 5.1.2.5 Other Parties. No other party to this
2 action owns or possesses any right to extract native ground
3 waters from the Sylmar Basin.

4 5.1.3 Verdugo Basin Rights.

5 5.1.3.1 No Pueblo Rights. The pueblo right of Los
6 Angeles does not extend to or include ground water in
7 Verdugo Basin.

8 5.1.3.2 Prescriptive Rights of Glendale and
9 Crescenta Valley. Glendale and Crescenta Valley own
10 prescriptive rights as against each other and against all
11 private overlying or appropriative parties in the Verdugo
12 Basin to extract, with equal priority, the following
13 quantities of water from the combined safe yield of native
14 and imported waters in Verdugo Basin:

15 Glendale 3,856 acre feet

16 Crescenta Valley 3,294 acre feet.

17 5.1.3.3 Other Parties. No other party to this
18 action owns or possesses any right to extract native ground
19 waters from the Verdugo Basin.

20 5.1.4 Eagle Rock Basin Rights.

21 5.1.4.1 No Pueblo Rights. The pueblo right of Los
22 Angeles does not extend to or include ground water in Eagle
23 Rock Basin.

24 5.1.4.2 No Rights in Native Waters. The Eagle Rock
25 Basin has no significant or measurable native safe yield and
26 no parties have or assert any right or claim to native
27 waters in said Basin.

28 5.2 Rights to Imported Waters.

1 5.2.1 San Fernando Basin Rights.

2 5.2.1.1 Rights to Recapture Import Return Water.

3 Los Angeles, Glendale, Burbank and San Fernando have each
4 caused imported waters to be brought into ULARA and to be
5 delivered to lands overlying the San Fernando Basin, with
6 the result that percolation and return flow of such
7 delivered water has caused imported waters to become a part
8 of the safe yield of San Fernando Basin. Each of said
9 parties has a right to extract from San Fernando Basin that
10 portion of the safe yield of the Basin attributable to such
11 import return waters.

12 5.2.1.2 Rights to Store and Recapture Stored Water.

13 Los Angeles has heretofore spread imported water directly in
14 San Fernando Basin. Los Angeles, Glendale, Burbank and San
15 Fernando each have rights to store water in San Fernando
16 Basin by direct spreading or in lieu practices. To the
17 extent of any future spreading or in lieu storage of import
18 water or reclaimed water by Los Angeles, Glendale, Burbank
19 or San Fernando, the party causing said water to be so
20 stored shall have a right to extract an equivalent amount of
21 ground water from San Fernando Basin. The right to extract
22 waters attributable to such storage practices is an
23 undivided right to a quantity of water in San Fernando Basin
24 equal to the amount of such Stored Water to the credit of
25 any party, as reflected in Watermaster records.

26 5.2.1.3 Calculation of Import Return Water and
27 Stored Water Credits. The extraction rights of Los Angeles,
28 Glendale, Burbank and San Fernando in San Fernando Basin in

any year, insofar as such rights are based upon import return water, shall only extend to the amount of any accumulated import return water credit of such party by reason of imported water delivered after September 30, 1977. The annual credit for such import return water shall be calculated by Watermaster based upon the amount of delivered water during the preceding water year, as follows:

Los Angeles: 20.8% of all delivered water (including reclaimed water) to valley fill lands of San Fernando Basin.

San Fernando: 26.3% of all imported and reclaimed water delivered to valley-fill lands of San Fernando Basin.

Burbank: 20.0% of all delivered water (including reclaimed water) to San Fernando Basin and its tributary hill and mountain areas.

Glendale: 20.0% of all delivered water (including reclaimed water) to San Fernando Basin and its tributary hill and mountain areas (i.e., total delivered water, [including reclaimed water], less 105% of total sales by Glendale in Verdugo Basin and its tributary hills).

In calculating Stored Water credit, by reason of direct spreading of imported or reclaimed water, Watermaster shall assume that 100% of such spread water reached the ground water in the year spread.

5.2.1.4 Cumulative Import Return Water Credits.

Any import return water which is not extracted in a given water year shall be carried over, separately accounted for,

1 and maintained as a cumulative credit for purposes of future
2 extractions.

3 5.2.1.5 Overextractions. In addition to
4 extractions of stored water, Glendale, Burbank or San
5 Fernando may, in any water year, extract from San Fernando
6 Basin an amount not exceeding 10% of such party's last
7 annual credit for import return water, subject, however, to
8 an obligation to replace such overextraction by reduced
9 extractions during the next succeeding water year. Any such
10 overextraction which is not so replaced shall constitute
11 physical solution water, which shall be deemed to have been
12 extracted in said subsequent water year.

13 5.2.1.6 Private Defendant. No private defendant is
14 entitled to extract water from the San Fernando Basin on
15 account of the importation of water thereto by overlying
16 public entities.

17 5.2.2 Sylmar Basin Rights.

18 5.2.2.1 Rights to Recapture Import Return Waters.
19 Los Angeles and San Fernando have caused imported waters to
20 be brought into ULARA and delivered to lands overlying the
21 Sylmar Basin with the result that percolation and return
22 flow of such delivered water has caused imported waters to
23 become a part of the safe yield of Sylmar Basin. Los
24 Angeles and San Fernando are entitled to recover from Sylmar
25 Basin such imported return waters. In calculating the
26 annual entitlement to recapture such import return water,
27 Los Angeles and San Fernando shall be entitled to 35.7% of
28 the preceding water year's imported water delivered by such

1 party to lands overlying Sylmar Basin. Thus, by way of
2 example, in 1976-77, Los Angeles was entitled to extract
3 2370 acre feet of ground water from Sylmar Basin, based on
4 delivery to lands overlying said Basin of 6640 acre feet
5 during 1975-76. The quantity of San Fernando's imported
6 water to, and the return flow therefrom, in the Sylmar Basin
7 in the past has been of such minimal quantities that it has
8 not been calculated.

9 5.2.2.2 Rights to Store and Recapture Stored Water.

10 Los Angeles and San Fernando each have the right to store
11 water in Sylmar Basin equivalent to their rights in San
12 Fernando Basin under paragraph 5.2.1.2 hereof.

13 5.2.2.3 Carry Over. Said right to recapture stored

14 water, import return water and other safe yield waters to
15 which a party is entitled, if not exercised in a given year,
16 can be carried over for not to exceed five years, if the
17 underflow through Sylmar Notch does not exceed 400 acre feet
18 per year.

19 5.2.2.4 Private Defendants. No private defendant

20 is entitled to extract water from within the Sylmar Basin on
21 account of the importation of water thereto by overlying
22 public entities.

23 5.2.3 Verdugo Basin Rights.

24 5.2.3.1 Glendale and Crescenta Valley. Glendale

25 and Crescenta Valley own appropriative and prescriptive
26 rights in and to the total safe yield of Verdugo Basin,
27 without regard as to the portions thereof derived from
28 native water and from delivered imported waters,

1 notwithstanding that both of said parties have caused waters
2 to be imported and delivered on lands overlying Verdugo
3 Basin. Said aggregate rights are as declared in Paragraph
4 5.1.3.2 of these Conclusions.

5 5.2.3.2 Los Angeles. Los Angeles may have a right
6 to recapture its import return waters by reason of delivered
7 import water in the Basin, based upon imports during and
8 after water year 1977-78, upon application to Watermaster
9 not later than the year following such import and on
10 subsequent order after hearing by the Court.

11 5.2.3.3 Private Defendants. No private defendant,
12 as such, is entitled to extract water from within the
13 Verdugo Basin on account of the importation of water thereto
14 by overlying public entities.

15 5.2.4 Eagle Rock Basin Rights.

16 5.2.4.1 Los Angeles. Los Angeles has caused
17 imported water to be delivered for use on lands overlying
18 Eagle Rock Basin and return flow from said delivered
19 imported water constitutes the entire safe yield of Eagle
20 Rock Basin. Los Angeles has the right to extract or cause
21 to be extracted the entire safe yield of Eagle Rock Basin.

22 5.2.4.2 Private Defendants. No private defendants
23 have a right to extract water from within Eagle Rock Basin,
24 except pursuant to the physical solution herein.

25 26 6. INJUNCTIONS

27 Each of the parties named or referred to in this Part 6, its
28 officers, agents, employees and officials is, and they are, hereby

1 ENJOINED and RESTRAINED from doing or causing to be done any of the
2 acts herein specified:

3 6.1 Each and Every Defendant -- from diverting the surface
4 waters of the Los Angeles River or extracting the native waters of SAN
5 FERNANDO BASIN, or in any manner interfering with the prior and
6 paramount pueblo right of Los Angeles in and to such waters, except
7 pursuant to the physical solution herein decreed.

8 6.2 Each and Every Private Defendant -- from extracting ground
9 water from the SAN FERNANDO, VERDUGO, or EAGLE ROCK BASINS, except
10 pursuant to physical solution provisions hereof.

11 6.3 Defaulting and Disclaiming Parties (listed in Attachments
12 "C" and "D") -- from diverting or extracting water within ULARA,
13 except pursuant to the physical solution herein decreed.

14 6.4 Glendale -- from extracting ground water from SAN FERNANDO
15 BASIN in any water year in quantities exceeding its import return
16 water credit and any stored water credit, except pursuant to the
17 physical solution; and from extracting water from VERDUGO BASIN n
18 excess of its appropriative and prescriptive right declared herein.

19 6.5 Burbank -- from extracting ground water from SAN FERNANDO
20 BASIN in any water year in quantities exceeding its import return
21 water credit and any stored water credit, except pursuant to the
22 physical solution decreed herein.

23 6.6 San Fernando -- from extracting ground water from SAN
24 FERNANDO BASIN in any water year in quantities exceeding its import
25 return water credit and any stored water credit, except pursuant to
26 the physical solution herein decreed.

1 6.7 Crescenta Valley -- from extracting ground water from
2 VERDUGO BASIN in any year in excess of its appropriative and
3 prescriptive right declared herein.

4 6.8 Los Angeles -- from extracting ground water from SAN
5 FERNANDO BASIN in any year in excess of the native safe yield, plus
6 any import return water credit and stored water credit of said city;
7 provided, that where the needs of Los Angeles require the extraction
8 of Underlying Pueblo Waters, Los Angeles may extract such water
9 subject to an obligation to replace such excess as soon as practical;
10 and from extracting ground water from VERDUGO BASIN in excess of any
11 credit for import return water which Los Angeles may acquire by reason
12 of delivery of imported water for use overlying said basin, as
13 hereinafter confirmed on application to Watermaster and by subsequent
14 order of the Court.

15 6.9 Non-consumptive and Minimal Consumptive Use Parties. The
16 parties listed in Attachment "F" are enjoined from extracting water
17 from San Fernando Basin, except in accordance with practices specified
18 in Attachment "F", or pursuant to the physical solution herein
19 decreed.

1 7. CONTINUING JURISDICTION

2 7.1 Jurisdiction Reserved. Full jurisdiction, power and
3 authority are retained by and reserved to the Court for purposes of
4 enabling the Court upon application of any party or of the Watermaster
5 by motion and upon at least 30 days' notice thereof, and after hearing
6 thereon, to make such further or supplemental orders or directions as
7 may be necessary or appropriate, for interpretation, enforcement or
8 carrying out of this Judgment, and to modify, amend or amplify any of
9 the provisions of this Judgment or to add to the provisions thereof
10 consistent with the rights herein decreed; provided, however, that no
11 such modification, amendment or amplification shall result in a change
12 in the provisions of Section 5.2.1.3 or 9.2.1 hereof.

13
14 8. WATERMASTER

15 8.1 Designation and Appointment.

16 8.1.1 Watermaster Qualification and Appointment. A
17 qualified hydrologist, acceptable to all active public agency
18 parties hereto, will be appointed by subsequent order of the
19 Court to assist the Court in its administration and enforcement
20 of the provisions of this Judgment and any subsequent orders of
21 the Court entered pursuant to the Court's continuing
22 jurisdiction. Such Watermaster shall serve at the pleasure of
23 the Court, but may be removed or replaced on motion of any party
24 after hearing and showing of good cause.

25 8.2 Powers and Duties.

26 8.2.1 Scope. Subject to the continuing supervision and
27 control of the Court, Watermaster shall exercise the express
28 powers, and shall perform the duties, as provided in this

1 Judgment or hereafter ordered or authorized by the Court in the
2 exercise of the Court's continuing jurisdiction.

3 8.2.2 Requirement for Reports, Information and Records.

4 Watermaster may require any party to furnish such reports,
5 information and records as may be reasonably necessary to
6 determine compliance or lack of compliance by any party with the
7 provisions of this Judgment.

8 8.2.3 Requirement of Measuring Devices. Watermaster shall

9 require all parties owning or operating any facilities for
10 extraction of ground water from ULARA to install and maintain at
11 all times in good working order, at such party's own expense,
12 appropriate meters or other measuring devices satisfactory to the
13 Watermaster.

14 8.2.4 Inspection by Watermaster. Watermaster shall make

15 inspections of (a) ground water extraction facilities and
16 measuring devices of any party, and (b) water use practices by
17 any party under physical solution conditions, at such times and
18 as often as may be reasonable under the circumstances to verify
19 reported data and practices of such party. Watermaster shall
20 also identify and report on any new or proposed new ground water
21 extractions by any party or non-party.

22 8.2.5 Policies and Procedures. Watermaster shall, with the

23 advice and consent of the Administrative Committee, adopt and
24 amend from time to time Policies and Procedures as may be
25 reasonably necessary to guide Watermaster in performance of its
26 duties, powers and responsibilities under the provisions of this
27 judgment.

1 8.2.6 Data Collection. Watermaster shall collect and
2 verify data relative to conditions of ULARA and its ground water
3 basins from the parties and one or more other governmental
4 agencies. Where necessary, and upon approval of the
5 Administrative Committee, Watermaster may develop supplemental
6 data.

7 8.2.7 Cooperation With Other Agencies. Watermaster may act
8 jointly or cooperate with agencies of the United States and the
9 State of California or any political subdivisions, municipalities
10 or districts (including any party) to secure or exchange data to
11 the end that the purpose of this Judgment, including its physical
12 solution, may be fully and economically carried out.

13 8.2.8 Accounting for Non-consumptive Use. Watermaster
14 shall calculate and report annually the non-consumptive and
15 consumptive uses of extracted ground water by each party listed
16 in Attachment "F".

17 8.2.9 Accounting for Accumulated Import Return Water and
18 Stored Water. Watermaster shall record and verify additions,
19 extractions and losses and maintain an annual and cumulative
20 account of all (a) stored water and (b) import return water in
21 San Fernando Basin. Calculation of losses attributable to Stored
22 Water shall be approved by the Administrative Committee or by
23 subsequent order of the Court. For purposes of such accounting,
24 extractions in any water year by Glendale, Burbank or San
25 Fernando shall be assumed to be first from accumulated import
26 return water, second from stored water, and finally pursuant to
27 physical solution; provided, that any such city may, by written
28

1 notice of intent to Watermaster, alter said priority of
2 extractions as between import return water and stored water.

3 8.2.10 Recalculation of Safe Yield. Upon request of the
4 Administrative Committee, or on motion of any party and
5 subsequent Court order, Watermaster shall recalculate safe yield
6 of any basin within ULARA. If there has been a material long-
7 term change in storage over a base period (excluding any effects
8 of stored water) in San Fernando Basin the safe yield shall be
9 adjusted by making a corresponding change in native safe yield of
10 the Basin.

11 8.2.11 Watermaster Report. Watermaster shall prepare
12 annually and (after review and approval by Administrative
13 Committee) cause to be served on all active parties, on or before
14 May 1, a report of hydrologic conditions and Watermaster
15 activities within ULARA during the preceding water year.
16 Watermaster's annual report shall contain such information as may
17 be requested by the Administrative Committee, required by
18 Watermaster Policies and Procedures or specified by subsequent
19 order of this Court.

20 8.2.12 Active Party List. Watermaster shall maintain at
21 all times a current list of active parties and their addresses.

22 8.3 Administrative Committee.

23 8.3.1 Committee to be Formed. An Administrative Committee
24 shall be formed to advise with, request or consent to, and review
25 actions of Watermaster. Said Administrative Committee shall be
26 composed of one representative of each party having a right to
27 extract ground water from ULARA, apart from the physical
28

1 solution. Any such party not desiring to participate in such
2 committee shall so advise Watermaster in writing.

3 8.3.2 Organization and Voting. The Administrative
4 Committee shall organize and adopt appropriate rules and
5 regulations to be included in Watermaster Policies and
6 Procedures. Action of the Administrative Committee shall be by
7 unanimous vote of its members, or of the members affected in the
8 case of an action which affects one or more basins but less than
9 all of ULARA. In the event of inability of the Committee to
10 reach a unanimous position, the matter may, at the request of
11 Watermaster or any party, be referred to the Court for resolution
12 by subsequent order after notice and hearing.

13 8.3.3 Function and Powers. The Administrative Committee
14 shall be consulted by Watermaster and shall request or approve
15 all discretionary Watermaster determinations. In the event of
16 disagreement between Watermaster and the Administrative
17 Committee, the matter shall be submitted to the Court for review
18 and resolution.

19 8.4 Watermaster Budget and Assessments.

20 8.4.1 Watermaster's Proposed Budget. Watermaster shall, on
21 or before May 1, prepare and submit to the Administrative
22 Committee a budget for the ensuing water year. The budget shall
23 be determined for each basin separately and allocated between the
24 separate ground water basins. The total for each basin shall be
25 allocated between the public agencies in proportion to their use
26 of ground water from such basin during the preceding water year.

27 8.4.2 Objections and Review. Any party who objects to the
28 proposed budget, or to such party's allocable share thereof, may

1 apply to the Court within thirty (30) days of receipt of the
2 proposed budget from Watermaster for review and modification.
3 Any such objection shall be duly noticed to all interested
4 parties and heard within thirty (30) days of notice.

5 8.4.3 Notice of Assessment. After thirty (30) days from
6 delivery of Watermaster's proposed budget, or after the order of
7 Court settling any objections thereto, Watermaster shall serve
8 notice on all parties to be assessed of the amount of assessment
9 and the required payment schedule.

10 8.4.4 Payment. All assessments for Watermaster expenses
11 shall be payable on the dates designated in the notice of
12 assessment.

13 8.5 Review of Watermaster Activities.

14 8.5.1 Review Procedures. All actions of Watermaster (other
15 than budget and assessment matters, which are provided for in
16 Paragraph 8.4.2) shall be subject to review by the Court on its
17 own motion or on motion by any party, as follows:

18 8.5.1.1 Noticed Motion. Any party may, by a
19 regularly noticed motion, apply to the court for review of
20 any Watermaster's action. Notice of such motion shall be
21 served personally or mailed to Watermaster and to all active
22 parties.

23 8.5.1.2 De Novo Nature of Proceedings. Upon the
24 filing of any such motion, the Court shall require the
25 moving party to notify the active parties of a date for
26 taking evidence and argument, and on the date so designated
27 shall review de novo the question at issue. Watermaster's
28 findings or decision, if any, may be received in evidence at

1 said hearing, but shall not constitute presumptive or prima
2 facie proof of any fact in issue.

3 8.5.1.3 Decision. The decision of the Court in
4 such proceeding shall be an appealable supplemental order in
5 this case. When the same is final, it shall be binding upon
6 the Watermaster and all parties.

7 8 9. PHYSICAL SOLUTION

9 9.1 Circumstances Indicating Need for Physical Solution. During
10 the period between 1913 and 1955, when there existed temporary surplus
11 waters in the San Fernando Basin, overlying cities and private
12 overlying landowners undertook to install and operate water
13 extraction, storage and transmission facilities to utilize such
14 temporary surplus waters. If the injunction against interference with
15 the prior and paramount rights of Los Angeles to the waters of the San
16 Fernando and Eagle Rock Basins were strictly enforced, the value and
17 utility of those water systems and facilities would be lost or
18 impaired. It is appropriate to allow continued limited extraction
19 from the San Fernando and Eagle Rock Basins by parties other than Los
20 Angeles, subject to assurance that Los Angeles will be compensated for
21 any cost, expense or loss incurred as a result thereof.

22 9.2 Prior Stipulated Judgments. Several defendants heretofore
23 entered into separate stipulated judgments herein, during the period
24 June, 1958 to November, 1965, each of which judgments was subject to
25 the court's continuing jurisdiction. Without modification of the
26 substantive terms of said prior judgments, the same are categorized
27 and merged into this judgment and superseded hereby in the exercise of
28 the Court's continuing jurisdiction, as follows:

1 9.2.1 Eagle Rock Basin Parties. Stipulating defendants
2 Foremost and Deep Rock have extracted water from Eagle Rock
3 Basin, whose entire safe yield consist of import return waters of
4 Los Angeles. Said parties may continue to extract water from
5 Eagle Rock Basin to supply their bottled drinking water
6 requirements upon filing all required reports on said extraction
7 with Watermaster and Los Angeles and paying Los Angeles annually
8 an amount equal to \$21.78 per acre foot for the first 200 acre
9 feet, and \$39.20 per acre foot for any additional water extracted
10 in any water year.

11 9.2.2 Non-consumptive or Minimal-consumptive Operations.
12 Certain stipulating defendants extract water from San Fernando
13 Basin for uses which are either non-consumptive or have a minimal
14 consumptive impact. Each of said defendants who have a minimal
15 consumptive impact has a connection to the City of Los Angeles
16 water system and purchases annually an amount of water at least
17 equivalent to the consumptive loss of extracted ground water.
18 Said defendants are:

19 Non-Consumptive

20 Walt Disney Productions

21 Sears, Roebuck & Co.
22
23
24
25
26
27
28

1 Minimal-Consumptive

2 Conrock Co., for itself and as successor to California
3 Materials Co.; Constance Ray White and Lee L. White;
4 Mary L. Akmadzich and Peter J. Akmadzich
5 Livingston Rock & Gravel, for itself and as successor
6 to Los Angeles Land & Water Co.

7 The nature of each said defendant's water use practices is
8 described in Attachment "F". Subject to required reports to and
9 inspections by Watermaster, each said defendant may continue
10 extractions for said purposes so long as in any year such party
11 continues such non-consumptive or minimal-consumptive use
12 practices.

13 9.2.3 Abandoned Operations. The following stipulating
14 defendants have ceased extracting water from San Fernando Basin
15 and no further need exists for physical solution in their behalf:

16 Knickerbocker Plastic Company, Inc.
17 Carnation Company
18 Hidden Hills Mutual Water Company
19 Southern Pacific Railroad Co.
20 Pacific Fruit Express Co.

21 9.3 Private Defendants. There are private defendants who
22 installed during the years of temporary surplus relatively substantial
23 facilities to extract and utilize ground waters of San Fernando Basin.
24 Said defendants may continue their extractions for consumptive use up
25 to the indicated annual quantities upon payment of compensation to the
26 appropriate city wherein their use of water is principally located, on
27 the basis of the following physical solution:
28

9.3.1 Private Defendants and Appropriate Cities. Said private defendants and the cities to which their said extractions shall be charged and to which physical solution payment shall be made are:

			Annual Quantities <u>(acre feet)</u>
Los Angeles	-	Toluca Lake	100
		Sportsman's Lodge	25
		Van de Kamp	120
Glendale	-	Forest Lawn	400
		Southern Service Co.	75
Burbank	-	Valhalla	300
		Lockheed	25

Provided that said private defendants shall not develop, install or operate new wells or other facilities which will increase existing extraction capacities.

9.3.2 Reports and Accounting. All extractions pursuant to this physical solution shall be subject to such reasonable reports and inspection as may be required by Watermaster.

9.3.3 Payment. Water extracted pursuant hereto shall be compensated for by annual payment to Los Angeles, and as agreed upon pursuant to paragraph 9.3.3.2 to Glendale and Burbank, thirty days from day of notice by Watermaster, on the following basis:

9.3.3.1 Los Angeles. An amount equal to what such party would have paid had water been delivered from the distribution system of Los Angeles, less the average energy cost of extraction of ground water by Los Angeles from San Fernando.

1 9.3.3.2 Glendale or Burbank. An amount equal to
2 the sum of the amount payable to Los Angeles under paragraph
3 9.4 hereof and any additional charges or conditions agreed
4 upon by either such city and any private defendant.

5 9.4 Glendale and Burbank. Glendale and Burbank have each
6 installed, during said years of temporary surplus, substantial
7 facilities to extract and utilize waters of the San Fernando Basin.
8 In addition to the use of such facilities to recover import return
9 water, the distribution facilities of such cities can be most
10 efficiently utilized by relying upon the San Fernando Basin for
11 peaking supplies in order to reduce the need for extensive new surface
12 storage. Glendale and Burbank may extract annual quantities of ground
13 water from the San Fernando Basin, in addition to their rights to
14 import return water or stored water, as heretofore declared, in
15 quantities up to:

16 Glendale	5,500 acre feet
17 Burbank	4,200 acre feet;

18 provided, that said cities shall compensate Los Angeles annually for
19 any such excess extractions over and above their declared rights at a
20 rate per acre foot equal to the average MWD price for municipal and
21 industrial water delivered to Los Angeles during the fiscal year, less
22 the average energy cost of extraction of ground water by Los Angeles
23 from San Fernando Basin during the preceding fiscal year. Provided,
24 further, that ground water extracted by Forest Lawn and Southern
25 Service Co. shall be included in the amount taken by Glendale, and the
26 amount extracted by Valhalla and Lockheed shall be included in the
27 amount taken by Burbank. All water taken by Glendale or Burbank
28 pursuant hereto shall be charged against Los Angeles' rights in the

1 year of such extractions.

2 In the event of emergency, and upon stipulation or motion
3 and subsequent order of the Court, said quantities may be enlarged in
4 any year.

5 9.5 San Fernando. San Fernando delivers imported water on lands
6 overlying the San Fernando Basin, by reason of which said city has a
7 right to recover import return water. San Fernando does not have
8 water extraction facilities in the San Fernando Basin, nor would it be
9 economically or hydrologically useful for such facilities to be
10 installed. Both San Fernando and Los Angeles have decreed
11 appropriative rights and extraction facilities in the Sylmar Basin.
12 San Fernando may extract ground water from the Sylmar Basin in a
13 quantity sufficient to utilize its San Fernando Basin import return
14 water credit, and Los Angeles shall reduce its Sylmar Basin
15 extractions by an equivalent amount and receive an offsetting
16 entitlement for additional San Fernando Basin extractions.

17 9.6 Effective Date. This physical solution shall be effective
18 on October 1, 1978, based upon extractions during water year 1978-79.

20 10. MISCELLANEOUS PROVISIONS

21 10.1 Designation of Address for Notice and Service. Each party
22 shall designate the name and address to be used for purposes of all
23 subsequent notices and service herein by a separate designation to be
24 filed with Watermaster within thirty (30) days after Notice of Entry
25 of Judgment has been served. Said designation may be changed from
26 time to time by filing a written notice of such change with the
27 Watermaster. Any party desiring to be relieved of receiving notices
28 of Watermaster activity may file a waiver of notice on a form to be

1 provided by Watermaster. Thereafter such party shall be removed from
2 the Active Party list. For purposes of service on any party or active
3 party by the Watermaster, by any other party, or by the Court, of any
4 item required to be served upon or delivered to such party or active
5 party under or pursuant to the Judgment, such service shall be made
6 personally or by deposit in the United States mail, first class,
7 postage prepaid, addressed to the designee and at the address in the
8 latest designation filed by such party or active party.

9 10.2 Notice of Change in Hydrologic Condition -- Sylmar Basin.

10 If Sylmar Basin shall hereafter be in a condition of overdraft due to
11 increased or concurrent appropriations by Los Angeles and San
12 Fernando, Watermaster shall so notify the Court and parties concerned,
13 and notice of such overdraft and the adverse effect thereof on private
14 overlying rights shall be given by said cities as prescribed by
15 subsequent order of the Court, after notice and hearing.

16 10.3 Judgment Binding on Successors. This Judgment and all
17 provisions thereof are applicable to and binding upon not only the
18 parties to this action, but also upon their respective heirs,
19 executors, administrators, successors, assigns, lessees and licensees
20 and upon the agents, employees and attorneys in fact of all such
21 persons.

22 10.4 Costs. Ordinary court costs shall be borne by each party,
23 and reference costs shall be borne as heretofore allocated and paid.

24 DATED: _____, 1979.

25
26 _____
27 Judge of the Superior Court
28

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ATTACHMENTS

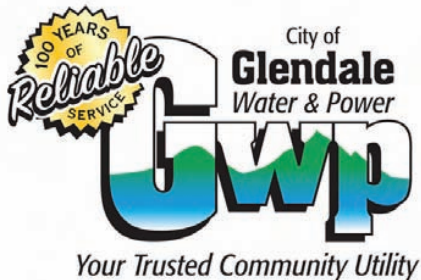
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BEST MANAGEMENT PRACTICES (BMPs)
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**PROOF OF PUBLIC NOTIFICATION
AND PLAN ADOPTION**



ADMINISTRATION

March 24, 2011

William Mace
Assistant General Manager - Water Systems
City of Burbank Water and Power
P.O. Box 631
Burbank, CA 91503-0631

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Mr. Mace:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

Should no comments be made during the public hearing recommending changes, the plan may be adopted by the Glendale City Council on the same day.

If you have any questions, please do not hesitate to contact Rosanna Lau at (818) 548-3966 or rlau@ci.glendale.ca.us. Thank you.

Sincerely,

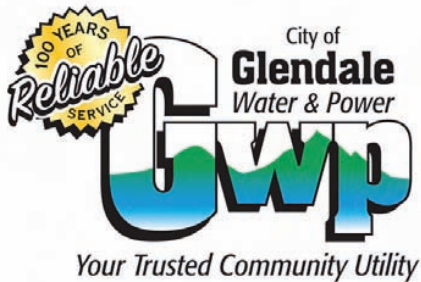
Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works Department

CITY OF GLENDALE WATER & POWER
141 North Glendale Ave., Level 4 • Glendale, CA 91206-4496
Tel: 818•548•4876 Fax: 818•240•4754





ADMINISTRATION

March 24, 2011

Thomas Erb
Director of Water Resources
Los Angeles Department of Water & Power
P. O. Box 51111
Los Angeles, CA 90051

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Mr. Erb:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

Should no comments be made during the public hearing recommending changes, the plan may be adopted by the Glendale City Council on the same day.

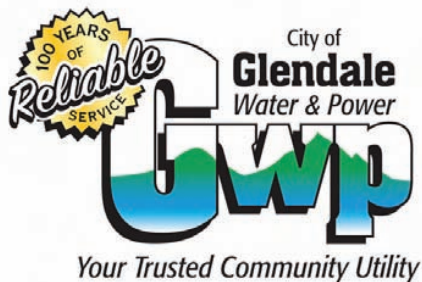
If you have any questions, please do not hesitate to contact Rosanna Lau at (818) 548-3966 or rlau@ci.glendale.ca.us. Thank you.

Sincerely,

Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works



ADMINISTRATION

March 24, 2011

Shan Kwan
Executive Director
Water Services Division
City of Pasadena Water & Power
150 S. Los Robles Avenue, Suite 200
Pasadena, CA 91101

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Mr. Kwan:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

Should no comments be made during the public hearing recommending changes, the plan may be adopted by the Glendale City Council on the same day.

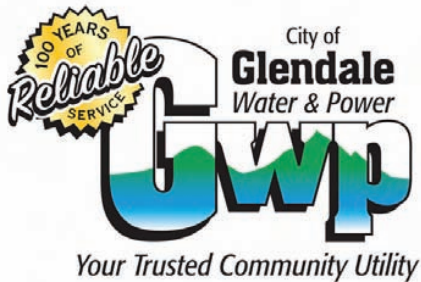
If you have any questions, please do not hesitate to contact Rosanna Lau at (818) 548-3966 or rlau@ci.glendale.ca.us. Thank you.

Sincerely,

Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works



ADMINISTRATION

March 24, 2011

Dennis Erdman
General Manager
Crescenta Valley Water District
2700 Foothill Blvd.
La Crescenta, CA 91214

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Mr. Erdman:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

Should no comments be made during the public hearing recommending changes, the plan may be adopted by the Glendale City Council on the same day.

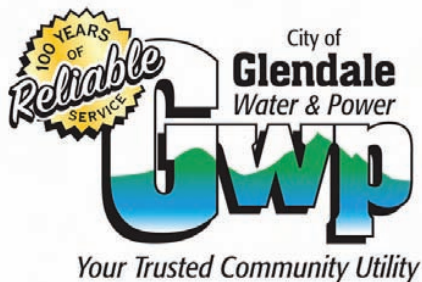
If you have any questions, please do not hesitate to contact Rosanna Lau at (818) 548-3966 or rlau@ci.glendale.ca.us. Thank you.

Sincerely,

Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works



ADMINISTRATION

March 24, 2011

Nina Jazmadarian
General Manager
Foothill Municipal Water District
4536 Hampton Road
La Canada Flintridge, CA 91012

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Ms. Jazmadarian:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

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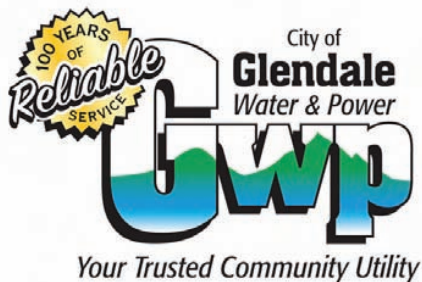
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Sincerely,

Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works



ADMINISTRATION

March 24, 2011

Jeff Kightlinger
General Manager
Metropolitan Water District of Southern California
P.O. Box 54153
Los Angeles, CA 90054-0153

SUBJECT: Notice of Intention to Adopt Update to Urban Water Management Plan

Dear Mr. Kightlinger:

This letter serves as notice that Glendale Water & Power (GWP) intends to adopt an update to its current Urban Water Management Plan (UWMP). A public hearing will be scheduled within May/June 2011 timeframe for comments. Comments may be submitted in writing before that time to:

Ms. Rosanna Lau
Glendale Water & Power – Water Engineering
141 North Glendale Avenue, Level 4
Glendale, California 91206

Please refer to our website www.glendalewaterandpower.com for updates and posting of a draft plan when it becomes available. The draft will be available 30 days prior to public hearing.

Should no comments be made during the public hearing recommending changes, the plan may be adopted by the Glendale City Council on the same day.

If you have any questions, please do not hesitate to contact Rosanna Lau at (818) 548-3966 or rlau@ci.glendale.ca.us. Thank you.

Sincerely,

Peter Kavounas
Assistant General Manager - Water

PK:rl

c: Hassan Haghani, City of Glendale - Director of Planning
Roubik Golanian, City of Glendale - Public Works

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA,
County of Los Angeles,**

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the notice published. I am a principal clerk of the NEWS-PRESS, which was adjudged a newspaper of general circulation on March 1, 1934, case 369086, for the City of Glendale, County of Los Angeles, and the State of California. Attached to this Affidavit is a true and complete copy as was printed and published on the following date(s):

April 8, 2011

**I certify (or declare) under penalty of perjury that
the foregoing is true and correct.**

Dated at Glendale, California,

This 8th day of April 2011



Signature

GNP#4-44

2010 Urban Water Management Plan

The City of Glendale is in the process of updating our Urban Water Management Plan (UWMP). The Public Review Draft of the UWMP will be available for a 30 day review beginning May 1, 2011.

Publish: 04/08/2011

**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA,
County of Los Angeles,**

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the notice published. I am a principal clerk of the NEWS-PRESS, which was adjudged a newspaper of general circulation on March 1, 1934, case 369086, for the City of Glendale, County of Los Angeles, and the State of California. Attached to this Affidavit is a true and complete copy as was printed and published on the following date(s):

April 19, 2011

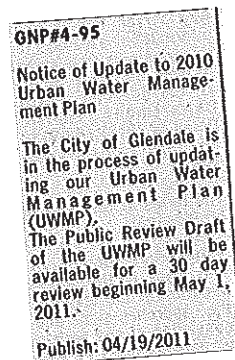
**I certify (or declare) under penalty of perjury that
the foregoing is true and correct.**

Dated at Glendale, California,

This 19th day of April 2011



Signature



**PROOF OF PUBLICATION
(2015.5 C.C.P.)**

**STATE OF CALIFORNIA,
County of Los Angeles,**


I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the notice published. I am a principal clerk of the GLENDALE NEWS-PRESS, which was adjudged a newspaper of general circulation on March 1, 1934, case 369086, for the City of Glendale, County of Los Angeles, and the State of California. Attached to this Affidavit is a true and complete copy as was printed and published on the following date(s):

June 3, 2011

**I certify (or declare) under penalty of perjury that
the foregoing is true and correct.**

Dated at Glendale, California,

This 3rd day of June 2011



Signature

221 N. Brand Blvd., Suite 200
Glendale, CA 91203

#5-5

NOTICE OF HEARING

Notice is hereby given that the
City of Glendale Water & Power Commission
Will hold a public hearing
MONDAY, JUNE 6, 2011 at 4:00 PM

Regarding:
2010 URBAN WATER MANAGEMENT PLAN

The location for the hearing is:
**CITY COUNCIL CHAMBERS
GLENDALE CITY HALL
613 E. BROADWAY, 2nd FLOOR
GLENDALE, CA 91206**

Every 5 years, water purveyors in California are required to update their Urban Water Management Plan (UWMP). The UWMP includes a general discussion of Glendale's history, an overview of its demographics, water supply sources, water demand, reliability, water shortage-contingency planning, and conservation measures. The plan also includes projections for the next 25 years.

Water customers of the City of Glendale Water & Power are encouraged to review the report and present comments at the public hearing. The City Council will adopt the updated plan by July 1, 2011.

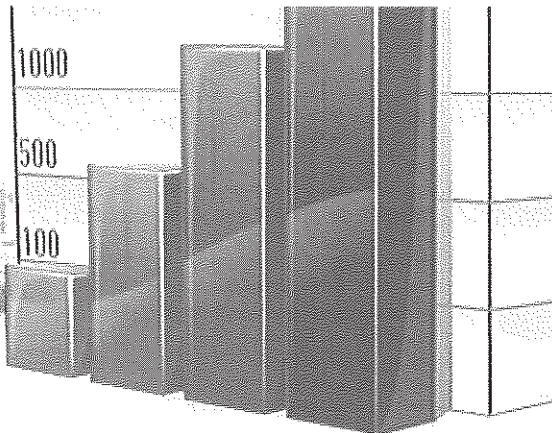
A copy of the report may be reviewed at
GWP Administration Office, 141 N. Glendale
Avenue, 4th Floor;
the Glendale Central Library - 222 E. Harvard
Street;
the Glendale City Clerks Office, 613 E. Broadway,
1st Floor;
and the GWP website www.GlendaleWaterAndPower.com.

If you have questions, please contact Raja Takidin
at (818) 548-3906.

Publish: 5/3, 5/10, 5/18, 5/26, 6/3



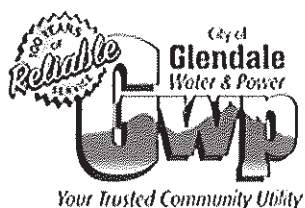
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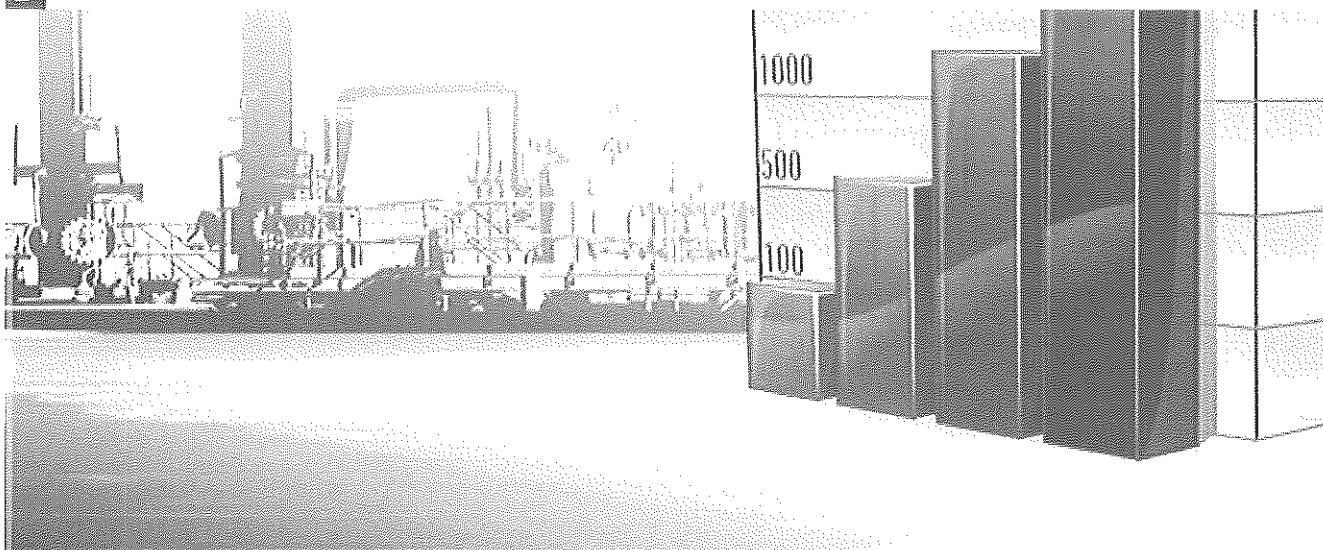
2010 Urban Water Management Plan

The City of Glendale is in the process of updating our Urban Water Management Plan (UWMP).

The Public Review Draft of the UWMP will be available for a 30 day review beginning May 1, 2011.



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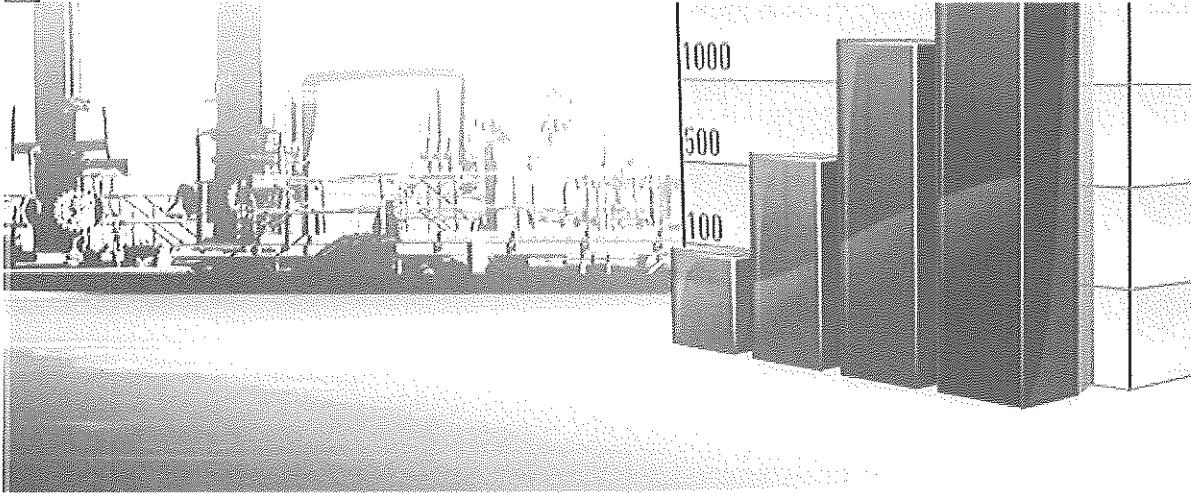
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2010 Urban Water Management Plan

Notice of Hearing and Review of Glendale 2010 Urban Water Management Plan

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References

Volume II - Appendices

Volume III - DVD Attachments

Volume IV - DVD Attachments

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Pete and Gabe Replacement Program
Kellogg 59 KV Gas Insulated Switchgear
Unit 9 Grayson Power Plant
Magnolia Power Project
Installation of New Kellogg Transformers
Chew Chase Reservoir Replacement

Introduction

Water Conservation - May 4, 2009

Water Conservation - April 2009

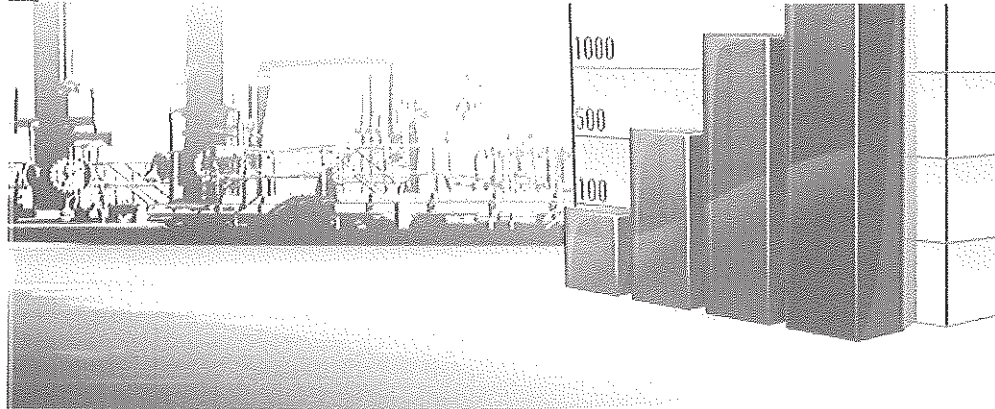
Green Smart Home Rebate Program 2009

REPORTS

2010 Urban Water Management Plan
GWP Smart Grid Business Case
2007 Integrated Resource Plan
Annual Reports
Chromium 6 Study
GWP Strategic Plan
Integrated Electronic Resource Plan
Outage Report for June 2009
Water Quality Reports



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Volume I - The Plan

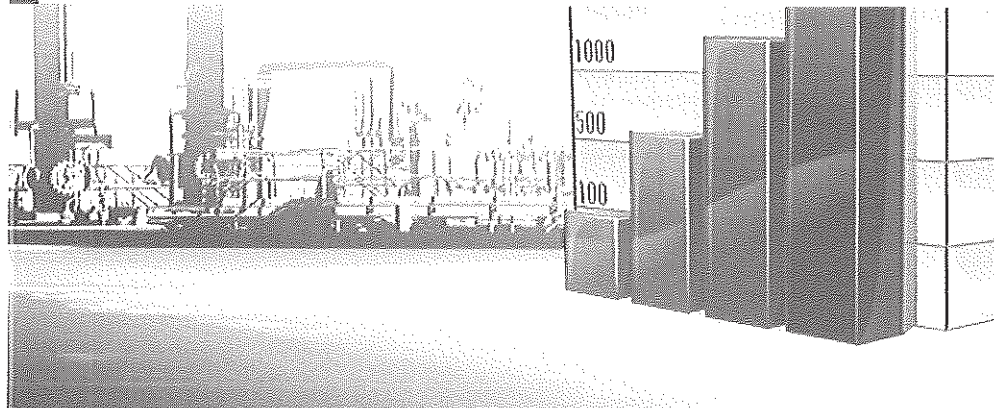
Volume II - Appendices

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Volume I - The Plan

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APPENDIX F

CURRENT RECYCLED WATER USERS

**CITY OF GLENDALE
CURRENT RECYCLED WATER USERS
As of December 2010**

CURRENT RECYCLED WATER USER	Actual	User	No.	Quantity	Type of
PROJECT	Delivery Date		Mtrs.	A.F./year	Use
FOREST LAWN PROJECT - 7					
Forest Lawn Memorial Park	1992	YES	2	200-400	Irrigation
I600 South Brand Median	1995	YES	1	6	Irrigation
Silver Crest Homes -323 W Garfield Avenue	2000	YES	1	2	Irrigation
Cerritos Elementary School (6-23-2006)	6 & 11 - 2006	YES	2	10	Irrigation
Edison Elementary School & Pacific Park	Mar-07	YES	1	15	Irrigation
Cerritos School Park	2007	YES	1	5	Irrigation
POWER PLANT PROJECT - 2					
Caltrans - 943 West Doran Street	1978	YES	1	40-60	Irrigation
Glendale Grayson Power Plant	1978	YES	1	400-600	Cooling Towers
Public Works - Parkway Irrigation		YES	1	1	Irrigation
VERDUGO SCHOLL PROJECT - 33					
PARKS and RECREATION - City of Glendale					
Adult Recreation Center (Renovated in 2006)	1995	YES	1	10	Irrigation
Armory	1996	YES	1	4	Irrigation
Central Library	1995	YES	2	4	Irrigation
Civic Auditorium	1996	YES	1	15	Irrigation
Colorado Boulevard - Parkway Irrigation (815, 1311, 1401)	1997	YES	3	5	Irrigation
3220 North Verdugo Road Median/La Crescenta Ave.	1996	YES	1	10	Irrigation
Glenoaks Park	1995	YES	1	5	Irrigation
Montecito Park	1995	YES	1	1	Irrigation
701 North Glendale Avenue - Median @ Monterey Rd.	1995	YES	1	6	Irrigation
741 S Brand Median	1995	YES	1	4	Irrigation
Parque Vaquero	1998	YES	1	2	Irrigation
Scholl Canyon Ballfield	1997	YES	1	20	Irrigation
Scholl Canyon Park	1996	YES	1	12	Irrigation
Sports Complex	1998	YES	1	99	Irrigation
Verdugo Rd/Canada (South) Overpass	1995	YES	1	0.5	Irrigation
3021 N Verdugo Rd/Canada (North Median)	1996	YES	1	1.5	Irrigation
1926 Fern Lane Medians-Irrigation (PW)	2003	YES	1	0.5-1.5	Irrigation
870 Monterey Road - Monterey Gardens	2009	YES	1	0.5	Irrigation
827 Monterey Road - Monterey Gardens	2010	YES	1	0.5	Irrigation
CALTRANS (5 Meters):					
1970 E Glenoaks Boulevard (E/S & W/S I2)	1995	YES	2	25	Irrigation
406 N Verdugo Road @ Chevy Chase	1995	YES	1	35	Irrigation
709 Howard Street @ Monterey Road	1995	YES	1	12	Irrigation
2000 E Chevy Chase Drive @ Harvey	1995	YES	1	4	Irrigation
GLENDALE UNIFIED SCHOOL DISTRICT:					
Glendale High School	1995	YES	1	30	Irrigation
Glenoaks Elementary School	1998	YES	1	2	Irrigation
Wilson Junior High School	1995	YES	1	15	Irrigation
OTHERS:					
Glendale Adventist Memorial Hospital (additions - UC)	1997	YES(Partially)	1	20	Irrigation/Cooling
Oakmont Country Club	1996	YES	1	250-350	Irrigation
Scholl Canyon Golf Course	1998	YES	1	150-250	Irrigation

**CITY OF GLENDALE
CURRENT RECYCLED WATER USERS
As of December 2010**

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PROJECT	Delivery Date		Mtrs.	A.F./year	Use
LACSD - Scholl Canyon Landfill	1997	YES	1	120	Dust Control/Soil
Upper Scholl Canyon Landfill (PW) RW PS	1996	YES	2	25	Combaction/Irrigation/Soil
Public Works - 3798 E Glenoaks Blvd.	1996	YES	2	10	Combaction/Irrigation
Building - 1551 E. Chevy Chase Drive (Glendale Retirement Home)	2008	YES	1	5	Irrigation
Americana at Brand LLC - Glendale Town Center	Apr-08	YES	1	20	Irrigation
<i>Dual Plumbing:</i>					
Glendale Community College (another building under construction)	1996/2004	YES Flush 4-04	2	25-35	Irrigation/Flushing Toilets
<i>PUBLIC WORKS - City of Glendale</i>	1978	YES	0	1.5	Street Cleaning
BRAND PARK PROJECT - 14					
Brand Park	1997	YES	1	55-65	Irrigation
Glenoaks Median (9 Services - Meters)	1996	YES	9	30	Irrigation
2008 W Glenoaks Boulevard		YES			Irrigation
1830 W Glenoaks Boulevard (at Irving)		YES			Irrigation
1108 W Glenoaks Boulevard		YES			Irrigation
978 W Glenoaks Boulevard		YES			Irrigation
720 W Glenoaks Boulevard		YES			Irrigation
618 W Glenoaks Boulevard		YES			Irrigation
532 W Glenoaks Boulevard		YES			Irrigation
1628 W Glenoaks Boulevard		YES			Irrigation
1400 W Glenoaks Boulevard		YES			Irrigation
Grand View Memorial Park	2001	YES(Partially)	2	50	Irrigation
Pelanconi Park	1996	YES	2	8	Irrigation
Walt Disney Complex	2007	YES	2		Irrigation
San Fernando Landscape (Railroad Irrigation)	Jan-09	YES	1		Irrigation
Fairmont Street (907 Flower Street)	Mar-11	YES	1	5	Irrigation
TOTAL	Number of Users 56		71	1,770.5 - 2,441.5	

APPENDIX G

FUTURE RECYCLED WATER USERS

CITY OF GLENDALE
FUTURE RECYCLED WATER USERS
As of December 2010

APPENDIX G

	FUTURE RECYCLED WATER USERS		<i>Anticipated</i>	<i>User</i>	<i>Quantity</i>	<i>Type of</i>
	PROJECT		Delivery Date		AFY	Use
	FOREST LAWN PROJECT					
1	Building - 1255 S. Central Ave (Verdugo Job Center)*		Completed	NO	5	Irrigation
2	Glendale Plaza - 655 N Central Avenue*		Completed	NO	10	Flushing Toilets
3	Building - 610 N. Central*		Completed	NO	6	Flushing Toilets
4	Glendale Memorial Hospital (1420 S. Central Ave.)		Planning	NO	15	Irrigation & Cooling Towers
5	328 Mira Loma Ave (44 residential units)		Construction	NO	10	Irrigation
6	Vassar Villas (San Fernando Rd & Glendale Ave)		Completed	NO	5	Irrigation
7	Pacific Park Pool		Design Stage	NO	5	Irrigation
	POWER PLANT PROJECT					
	VERDUGO SCHOLL PROJECT					
8	John Marshall School*		Completed	NO	5	Irrigation
9	Fremont Elementary School*		Planning Stage	NO	5	Irrigation
10	Polygon Homes Housing Tracks (Camino San Rafael)*		Planning Stage	NO	85	Irrigation
11	Chevy Oaks Homes*		Planning Stage	NO	25	Irrigation
12	Chevy Chase Country Club*		Planning Stage	NO	100	Irrigation
13	Building - 111 N. Brand*		Planning Stage	NO	5	Irrigation
14	Building - 295 E. Garfield*		Planning Stage	NO	10	Irrigation
15	Building - 800 N. Brand (Nestle)		Planning Stage	NO	10	Cooling Towers
16	Caltrans Fwy 210		Planning Stage	NO	20	Irrigation
17	Residential Building - 720 S. Maryland		Design Stage	NO	5	Irrigation
18	3-Story Multi Use - 415 E. Broadway		Construction	NO	5	Irrigation
19	Doran Garden (Mixed Use) 331 W. Doran		Planning Stage	NO	5	Irrigation
20	Building - 400 N Brand		Completed	NO	10	Flushing Toilets
21	Building - 450 N Brand		Completed	NO	10	Flushing Toilets
22	Police Building - Isabel Street		Completed	NO	5	Flushing Toilets
23	Building - 611 N Brand		Completed	NO	10	Flushing Toilets
24	Building - 207 Goode Ave		Completed - 2009	NO	10	Flushing Toilets
25	Fire Station No. 21*		Completed	NO	10	Irrigation
26	Mayor's Bicentennial Park		Planning Stage	NO	5	Irrigation
27	Carr Park		Planning Stage	NO	5	Irrigation
28	Glorietta Pump Station		2002	NO	5	Irrigation
29	Monterey Road Median - WJH		2002	NO	1	Irrigation
30	Deukmejian Wilderness Park		Completed	NO	100	Irrigation
31	Crescenta Valley Park		Planning Stage	NO	30	Irrigation
32	Lutheran School of the Foothills		Planning Stage	NO	5	Irrigation
33	Saint James the Less School		Planning Stage	NO	5	Irrigation
34	Dunsmore Park/Elementary		Planning Stage	NO	25	Irrigation
35	Hillside Irrigation (Camino San Rafael)		Planning Stage	NO	30	Irrigation
36	Montrose Community Park		Planning Stage	NO	15	Irrigation
37	Verdugo Hills Hospital		Planning Stage	NO	30	Irrigation
38	222 Glendale Ave (Orange Grove)		Planning Stage	NO	5	Irrigation
39	Cedar Mini Park* -		Completed - 2009	NO	5	Irrigation
40	Sleepy Hollow HOA		Planning Stage	NO	5	Irrigation
41	Verdugo Woodlands Elementary School		Planning Stage	NO	5	Irrigation
42	Maryland Mini Park		Design Stage	NO	5	Irrigation
43	Pacific Park Pool		Construction	NO	10	Irrigation / Flushing
44	220 E. Broadway (Mixed Used)		Construction	NO	5	Irrigation

CITY OF GLENDALE
FUTURE RECYCLED WATER USERS
As of December 2010

APPENDIX G

	FUTURE RECYCLED WATER USERS		<i>Anticipated</i>	<i>User</i>	<i>Quantity</i>	<i>Type of</i>
	PROJECT		Delivery Date		AFY	Use
	BRAND PARK PROJECT					
45	Homestead Studio Suites (1377 W. Glenoaks Blvd)		Completed	NO	5	Irrigation
46	Toll Jr High*		Design	NO	10	Irrigation
47	Hoover High School*		Design	NO	21	Irrigation
48	Keppel High School*		Design	NO	10	Irrigation
49	Disney Campus*		Planning Stage	NO	50	Irrigation / Flushing Toilets
50	Dreamworks - Flower Street		Completed	NO	15	Irrigation
51	Disney Child Care Center (1500 Flower Street)		Completed	NO	10	Irrigation
52	Disney Landscape - 1401 Flower Street		Completed	NO	10	Irrigation
53	Grandview Condos		Design Stage	NO	5	Irrigation
54	Glendale Narrow Riverwalk Project /Fairmont Project		Completed	NO	10	Irrigation
55	Griffith Manor Park		Design Stage	NO	5	Irrigation
56	Caltrans I-5		Planning Stage	NO	30	Irrigation
57	Public Works - Street Sweeping/Yard		Design Stage	NO	8	Street Sweeping
58	GWP-UOC - Airway		Design Stage	NO	10	Irrigation / Flushing Toilets
	TOTAL				886	
		* RW main service not yet available.				
		** Pasadena and Los Angeles Demand not included				

APPENDIX H

BASE PER CAPITA WATER **DETAILED CALCULATIONS**

GLENDALE WATER PROJECTIONS

Source: Department of Finance - Demographic Research Unit
Data File: Race/Ethnic Population with Age and Sex Detail, 2000-2050.xls

ar - El

Start of
Drought

POTABLE WATER SUPPLY

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
LA County Population	9,330,171	9,519,330	9,656,585	9,815,369	9,959,447	10,074,844	10,158,409	10,209,201	10,243,764	10,301,658	10,393,185
Glendale % of County Popu.	2.05%	2.05%	2.04%	2.04%	2.03%	2.03%	2.02%	2.01%	2.01%	2.00%	1.99%
GWP Total Population	191,582	194,973	197,352	199,994	202,383	204,782	205,651	205,677	205,437	205,980	207,303
GWP Serving Population	183,182	186,573	188,952	191,594	193,983	196,382	197,251	197,277	197,037	197,580	198,903

Fiscal Year	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
Water Production (in AF)	30,085	32,587	31,119	28,095	31,039	32,666	30,745	31,079	32,846	31,908	29,699
% Increase per 5 years		8%	-5%	-10%	10%	5%	-6%	1%	6%	-3%	-7%
Water Production (in MGD)	9,803	10,619	10,140	9,155	10,114	10,644	10,018	10,127	10,703	10,397	9,677
GPCD (based on serving popu.)	146.6	155.9	147.0	130.9	142.8	148.5	139.2	140.6	148.8	144.2	133.3

10 year -Base Daily Per Capita Water Use

(gpcd) 2000-2009

5 year -Base Daily Per Capita Water Use

(gpcd) 2004-2008

Maximum gpcd (95% of 5 yr)

Method 3 gpcd (95% of hydrologic)

2020 Target

2015 Interim

Used Average trend between
2000-2009 to reflect 10 year trend
increase/decrease

GWP Serving Population = Glendale Total Population -
8,400 ppl in Glendale that are being served by CVWD

26,227.4

Projected Demand (in AF)	-	-	-	-	-	-	-	-	-	-	-
Estimated Consumption	-	-	-	-	-	-	-	-	-	-	-
Misc. Non-Revenue	-	-	-	-	-	-	-	-	329	235	298
Unaccounted-For Water %	-	-	-	-	-	-	-	6.2%	1.3%	6.6%	5.1%
Unaccounted-For Water	-	-	-	-	-	-	-	1,916.0	435.0	2,121.0	1,527.0
Projected Local Prod (in AF)	-	-	-	-	8,236	8,870	8,067	8,762	9,017	10,027	8,825
SFB Supply (in AF)	0.0	0.0	0.0	3,223.0	6,959	6,983	6,059	6,435	6,522	7,287	6,617
VB Supply (in AF)	1,635.0	732.0	2,086.0	1,963.7	1,277	1,887	2,008	2,326	2,495	2,740	2,208
Project MWD Purchase (in AF)											
Normal Yr	27,865	30,136	29,033	26,132	22,803	23,796	22,678	22,317	23,829	21,881	20,874
Project Demand (in AF)											
Normal Yr											
Dry Yr (3% higher)											
Wet Yr (3% lower)											

Est. Consum. (in AF) = Est. GWP Serving Pop. x GPCD

RECYCLED WATER SUPPLY (in AF)

Fiscal Year	1998-199	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
Actual Consumption	1,458.0	1,738	1,673	1,490	1,341	1,521	1,224	1,237	1,336	1,553	1,607
Projection based 0% increase											
recycled gpcd equivalent=	7	8	8	7	6	7	6	6	6	7	7

GLENDALE WATER PROJECT

POTABLE WATER SUPPLY												
	2010	2011	2012	2013	2014	2015	2020	2025	2030	2035		
LA County Population	10,514,663	10,574,086	10,636,448	10,701,691	10,769,635	10,839,873	11,214,237	11,593,214	11,920,289	12,217,857		
Glendale % of County Popu.	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%		
GWP Total Population	210,293	211,482	212,729	214,034	215,393	216,797	224,285	231,864	238,406	244,357		
GWP Serving Population	201,893	203,082	204,329	205,634	206,993	208,397	215,885	223,464	230,006	235,957		
Fiscal Year												
Water Production (in AF)	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2019-2020	2024-2025	2029-2030	2034-2035		
% Increase per 5 years	26,338	26,271	27,655	27,680	27,706	27,732	27,860	27,990	28,120	28,250		
Water Production (in MGD)	-11%					5%	0%	0%	0%	0%		
GPCD (based on serving popu.)	8,582	8,560				9,036	9,078	9,120	9,163	9,205		
10 year -Base Daily Per Capita Water Use (gpcd) 2000-2009	116.5	115.5	120.8	120.2	119.5	118.8	115.2	111.8	109.1	106.9		
5 year -Base Daily Per Capita Water Use (gpcd) 2004-2008	143.1											
Maximum gpcd (95% of 5 yr)	144.3											
Method 3 gpcd (95% of hydrologic)	137.0											
2020 Target	141.6											
2015 Interim	137.0											
	140.1											
GWP is projected to meet 2015 Interim goal of 140.1 gpcd or below												
GWP is projected to meet 2020 goal of 137 gpcd or below per SBx7-7 to reduce by 20% by 2020												
Used the lesser of the 95% of 5 yr gpcd and the Method 3 - 95% of hydrologic region												
Projected Demand (in AF)												
Estimated Consumption	27,890	28,279	29,506	29,103	29,249	29,276	29,411	29,546	29,681	29,818		
Misc. Non-Revenue	26,338	26,271	27,655	27,680	27,706	27,732	27,860	27,990	28,120	28,250		
Unaccounted-For Water %	309	300	300	300	300	300	300	300	300	300		
Unaccounted-For Water	4.7%	6.5%	5.6%	4.1%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%		
Projected Local Prod (in AF)	1,243.0	1,708	1,551	1,122	1,243	1,244	1,250	1,256	1,262	1,268		
SFB Supply (in AF)	9,788	10,000	11,656	11,656	11,656	11,656	11,656	11,656	11,656	11,656		
VB Supply (in AF)	7,701	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800		
Project MWD Purchase (in AF)	2,087	2,200	3,856	3,856	3,856	3,856	3,856	3,856	3,856	3,856		
Normal Yr	16,550	18,279	17,850	17,447	17,593	17,620	17,755	17,890	18,025	18,162		
Project Demand (in AF)												
Normal Yr	28,279	28,279	29,506	29,103	29,249	29,276	29,411	29,546	29,681	29,818		
Dry Yr (3% higher)	29,127	29,127	30,391	29,976	30,127	30,154	30,293	30,432	30,572	30,712		
Wet Yr (3% lower)	27,430	27,430	28,621	28,230	28,372	28,398	28,528	28,659	28,791	28,923		
Average of previous 2 years - 2% for AMI												
RECYCLED WATER SUPPLY (in AF)												
Fiscal Year	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2019-2020	2024-2025	2029-2030	2034-2035		
Actual Consumption	1,662.4											
Projection based 0% increase	7	1,662.4	1,662.4	1,662.4	1,662.4	1,662.4	1,662.4	1,662.4	1,662.4	1,662.4		
recycled gpcd equivalent=		7	7	7	7	7	7	7	6	6		
Projected 0% increase annually												
RW Expansion (AF) gpcd: 900 4												

APPENDIX I

EMERGENCY RESPONSE TACTICAL PLAN

Emergency Water Supplies

The material in this section will identify possible sources of potable water that can be used in the event the water system is not operational because of system outages, water quality impairment, or natural disaster. It could be a period of time from hours to days before water could be available.

Adjacent Water Agencies

Depending on the type of emergency, Glendale staff could contact the City of Burbank and Crescenta Valley County Water District (CVCWD) to activate water system interconnections. If these agencies are experiencing similar problems with their system, such as might occur in an earthquake, the City will need to review the availability of outside sources from private companies.

<u>City of Burbank (2 connections)</u>	<u>Office</u>	<u>Cell</u>	<u>Emergency</u>
Bill Mace Asst. General Manager – Water	818-238 - 3558		
Albert Lopez, Water Superintendent (Operations)	818-238-3500	<u>Pager</u> 818-829-4276	
Kevin Mitchell Water Superintendent Maintenance & Construction	818-238-3500	818- 427-8515	
Guard (After Hours)	818-238-3778		

Crescenta Valley County Water District

Dennis Erdman, General Manager	818-248-3925	818-389-8777	818-249-2185
Larry Byers, Water Superintendent	818-249-2185		

Private Water Suppliers

The Water Section can contact private companies (Sparkletts, Arrowhead, etc.) for water availability. The Water Superintendent and the staff, in coordination with the Fire Department and the Police Department could make this water available for citizens to pick-up their own containers at such locations as the Civic Auditorium, Utility Operation Center (UOC), or the Glendale Central Library. Information is provided below on the sources of bottled or bulk water.

Water Section employees will need to coordinate the contact of these agencies with *Water & Power* management and the City's EOC.

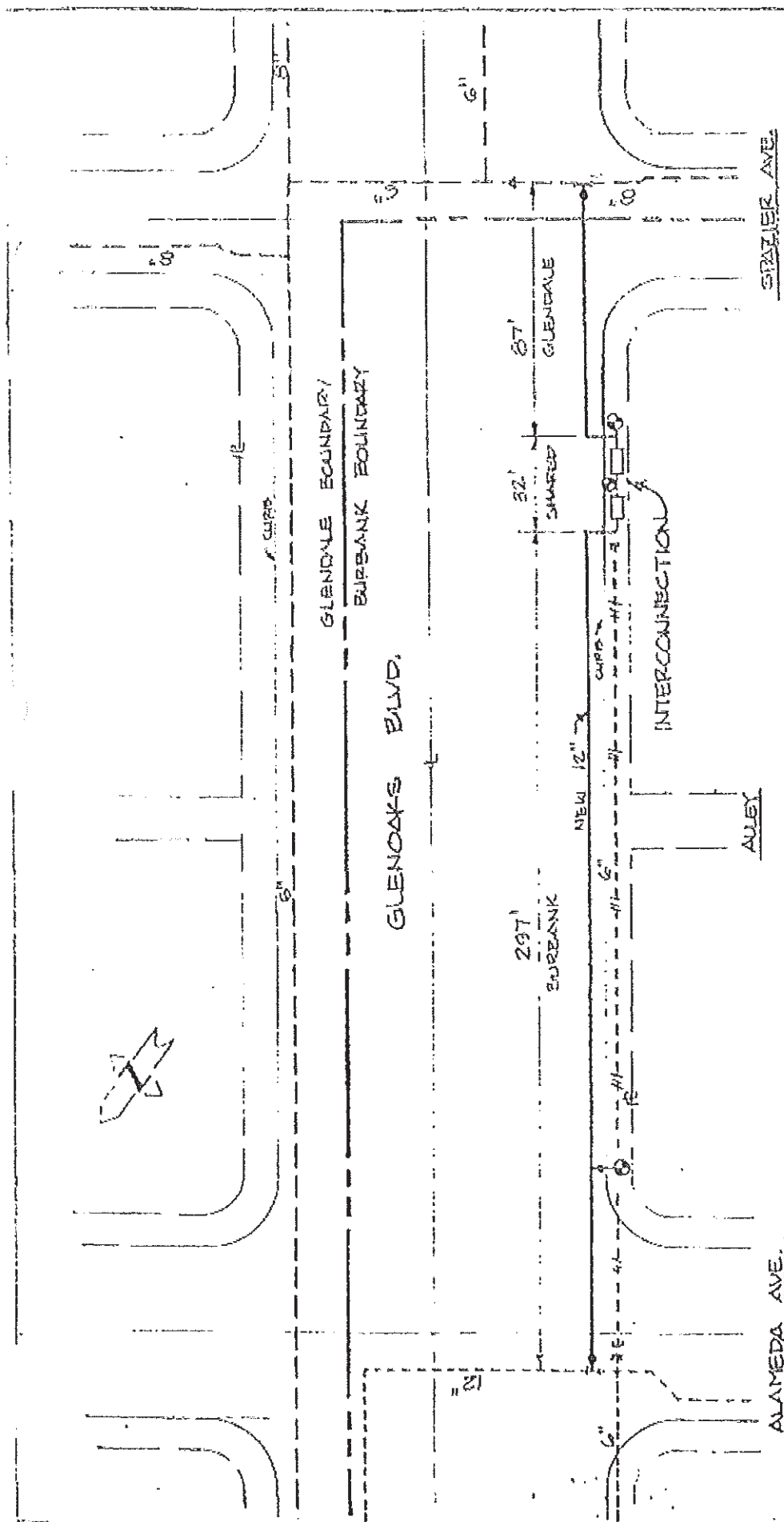
- | | | |
|----|-------------------------------------|----------------|
| 1. | Arrowhead Mountain Spring Water Co. | (800) 950-9393 |
| 2. | Sierra Spring Water | (800) 669-3402 |
| 3. | Yosemite Water | (800) 427-8420 |
| 4. | Sparkletts | (800) 453-0293 |
| 5. | Mountain Spring Valley Water | (800) 499-9982 |
| 6. | Rocky Mountain Water | (800) 339-3971 |

Use of City Reservoirs

It is possible that water from a City storage tank could be distributed to the public in the event of a system outage. This could occur only after bacteriological testing shows absence of Coliform Bacteria and presence of a chlorine residual (0.2 – 2) mg/l. Glendale *Water & Power* will provide a U.S. Food and Drug Administration approved garden hose to distribute the water from City water tanks to individual containers or tanker trucks. The Water Superintendent and Principle Water Quality Specialist will supervise distribution at different storage tanks in coordination with other City Departments.

Locations of Connections to City of Los Angeles, Burbank and Crescenta Valley

1. Glendale/Burbank Interconnection
2. Crescenta Valley Interconnection (Emergency Fire Hydrant Connection)
3. Broadway/Wilson-City of Los Angeles (Future)
4. Lowell/Markridge-City of Los Angeles (Future)



SITE PLAN

NTS

LEGEND

- EXIST. BURBANK MAIN
- EXIST. GLENDALE MAIN
- NEW MAIN
- #-#- MAIN TO BE AGAIN
- FIRE HYDRANT
- VALVE

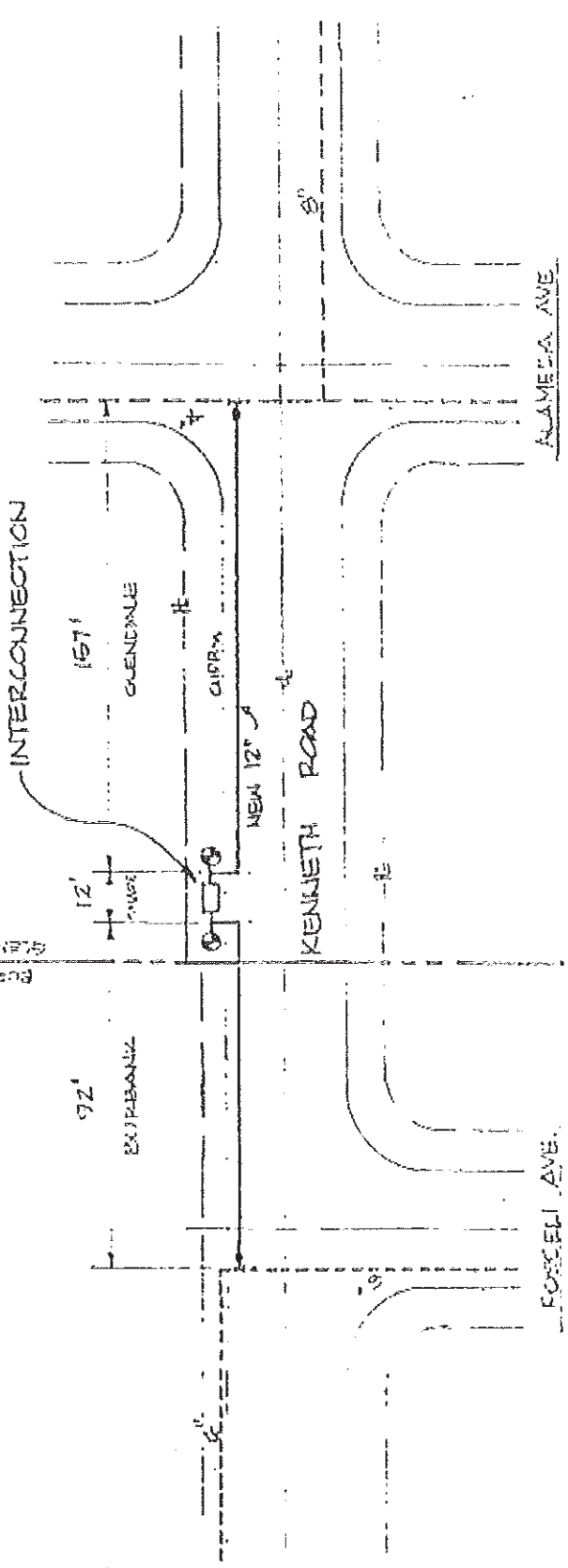
BURBANK TO GLENDALE

FEET	
BURBANK	904
GLENDALE	724

FIGURE 1

12/10/92	BURBANK/GLENDALE INTERCONNECTION
TPL	

BURBANK
GLENDALE



SITE PLAN NTS

LEGEND

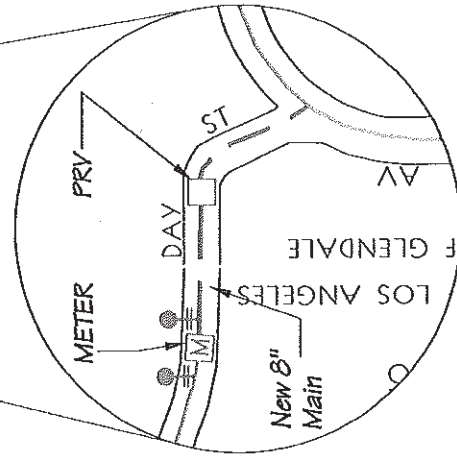
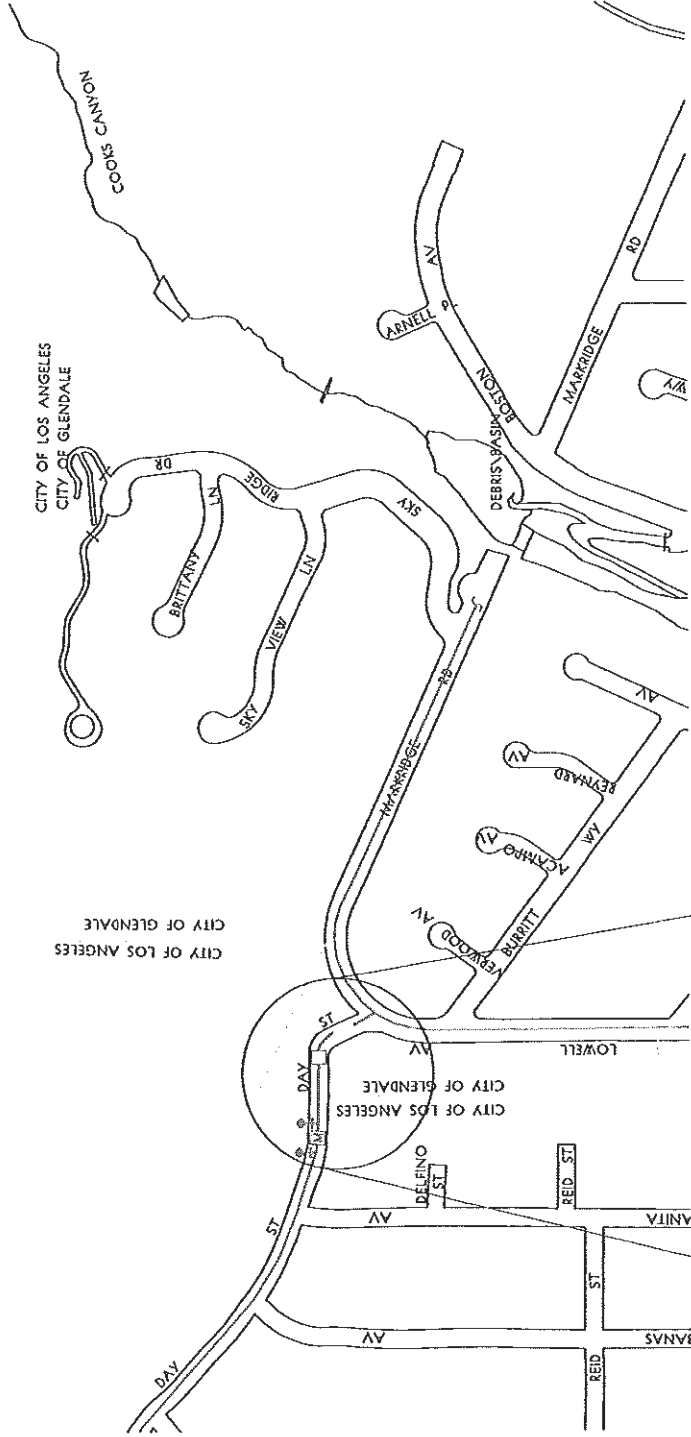
- EXIST. BURBANK MAIN
- EXIST. GLENDALE MAIN
- NEW MAIN
- FIRE HYDRANT
- GATE VALVE

GLENDALE TO BURBANK




HGL	
BURBANK	904
GLENDALE	968

FIGURE 2

12/10/92	BURBANK/GLENDALE INTERCONNECTION
TPL	



LEGEND

-  NEW 8" DIAMETER DUCTILE IRON WATER MAIN
-  EXISTING WATER MAIN
-  NEW FIRE HYDRANT

INTERCONNECTION HAS NOT BEEN CONSTRUCTED AS OF AUGUST 2007.

CITY OF GLENDALE
GLENDALE WATER & POWER

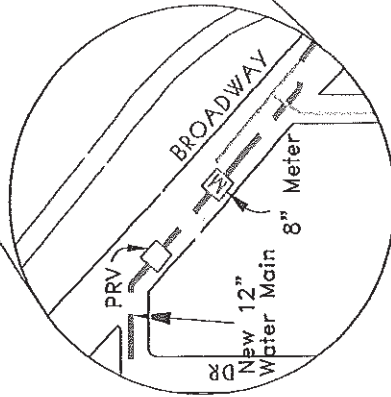
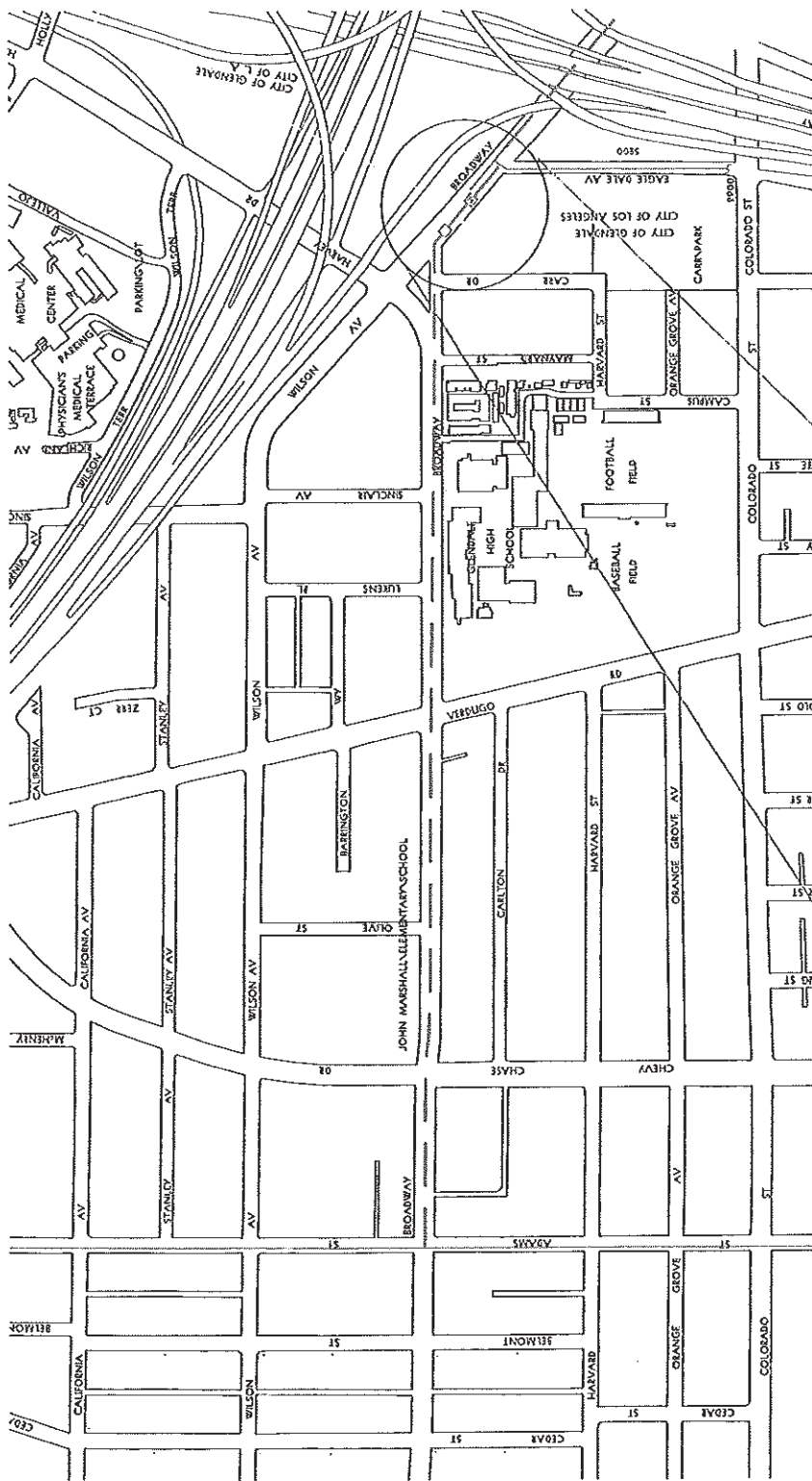
PROPOSED LOS ANGELES - GLENDALE NORTH INTERCONNECTION LOCATION MAP

DATE: 8-27-07

SHEET: 1 OF 1

DES: TN DRWN: AC

SCALE: NONE



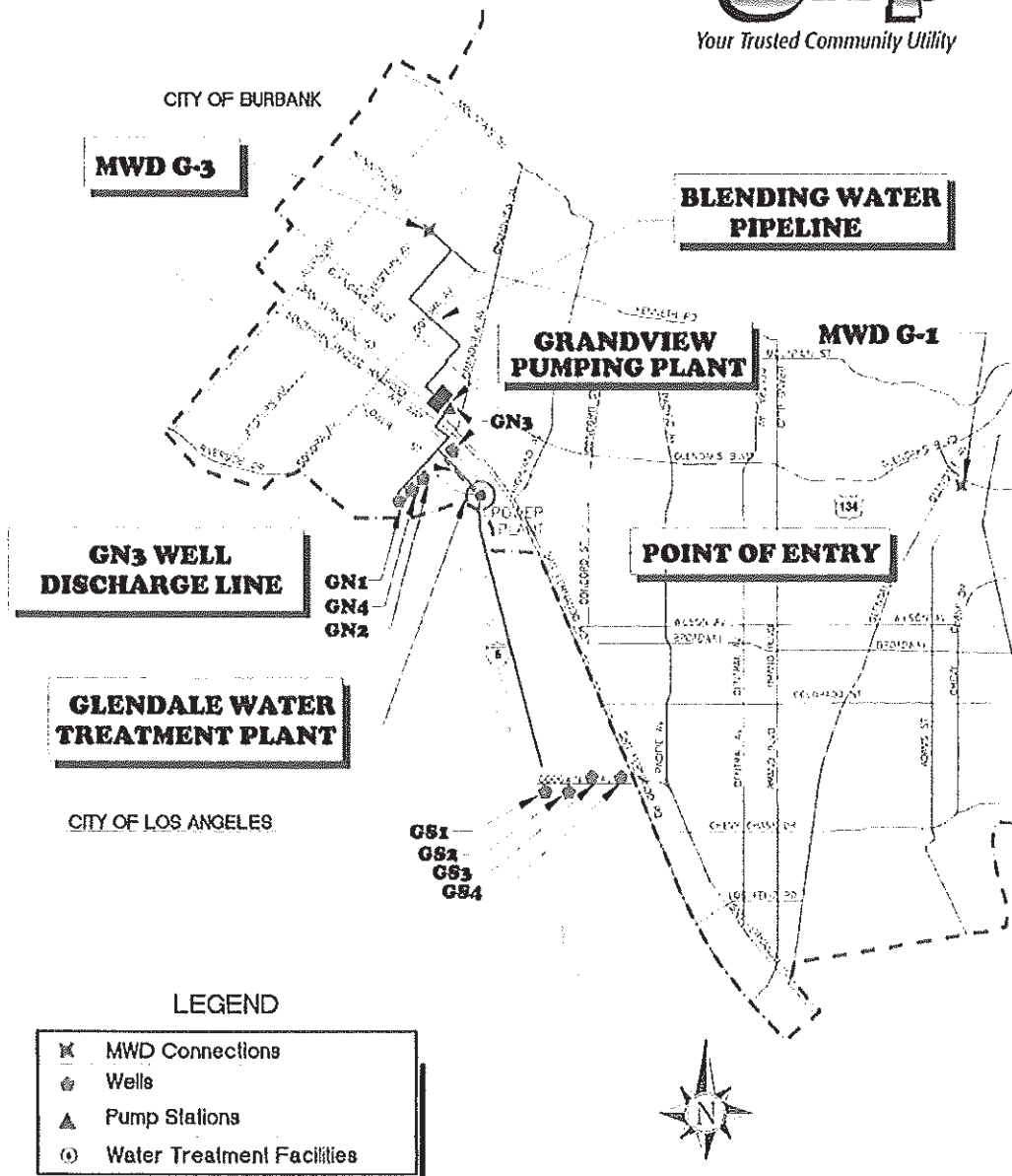
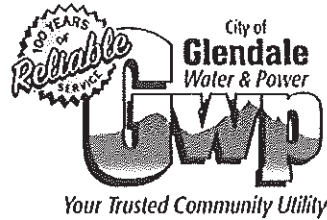
INTERCONNECTION HAS NOT BEEN CONSTRUCTED AS OF AUGUST 2007.

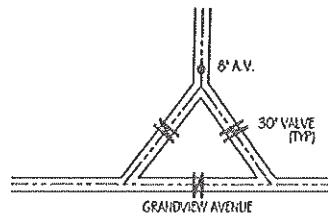
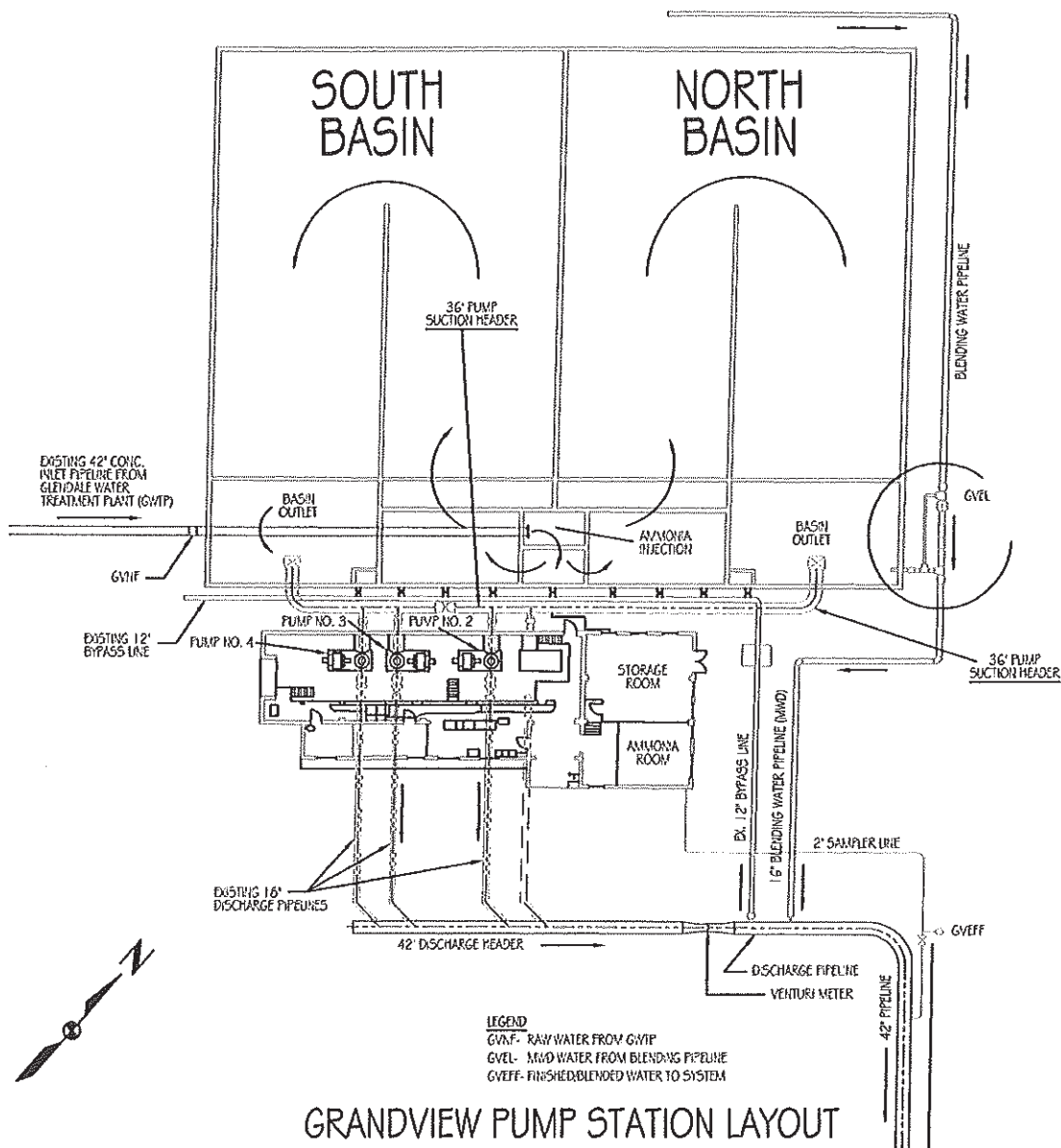
LEGEND

NEW 12" DIAMETER DUCTILE IRON WATER MAIN
 EXISTING WATER MAIN

CITY OF GLENDALE GLENDALE WATER & POWER	PROPOSED LOS ANGELES - GLENDALE SOUTH INTERCONNECTION LOCATION MAP	DATE: 8-27-07 DES: TN DRWN: AC SHEET: 1 OF 1 SCALE: NONE
--	---	---

GLENDALE WATER TREATMENT PLANT SYSTEM LAYOUT





GRANDVIEW PUMP STATION LAYOUT

Date: 10/26/09
Drawn By: GR

DETAIL A

Earthquake Emergency

EVALUATION OF EMERGENCIES

- **LEVEL I - MINOR EMERGENCY**

Level I earthquakes are those that:

- felt by nearly everyone
- feel like the vibrations due to a passing truck
- felt by people while walking
- awakens sleepers
- cause trees to sway and all suspended objects to swing

Level I earthquakes generally have Richter magnitudes less than 4.9. However, when evaluating the potential impact of an earthquake, the epicenter location must also be considered. For example, a Level I earthquake with an epicenter located near Glendale could conceivably have the same effect as a Level I earthquake with an epicenter located outside of the Glendale area. The 1988 Pasadena, 1989 Newport Beach earthquakes are examples of Level I earthquakes.

- **LEVEL II - MAJOR EMERGENCY**: A moderate to severe emergency wherein local resources are not adequate and mutual aid may be required on a regional or statewide basis.

Level II earthquakes are those that:

- are felt by moving people and drivers of motor cars
- are felt by all
- may cause some power outages and communication system overload
- may cause cracks in walls and destroy weak buildings
- may sever pipelines, causing leaks
- may cause some telephone outages
- may vibrate some structures off their supports
- may sever gas lines causing fires

Level II earthquakes generally have Richter magnitudes of 5.0 to 5.9. The 1987 Whittier and 1991 Sierra Madre earthquake have been classified in this category.

- **LEVEL III – CATASTROPHIC EMERGENCY:** A major disaster wherein resources in or near the impacted area are overwhelmed and extensive state and/or federal resources are required.

Level III earthquakes are those that:

- are felt by everyone within the earthquake's vicinity
- sever pipelines breakage (gas, water, sewer, oil, communication etc,)
- create various fires and chemical explosions
- damages dams
- ground cracks and landslides
- buildings collapse

A commonly used term for an earthquake in this category is "the Big One". The Richter magnitude for a Level III earthquake ranges from 6.0 to greater than 8.0. The 1985 Mexico City 8.0, 1988 Armenia 7.2, 1989 San Francisco/Loma Prieta 6.9, 1994 Northridge 6.7, most recently 2010 Haiti 7.0, 2010 Chili 8.8 and 2010 Mexicali 7.2, earthquakes have been classified in this category.

The infrequent occurrence of earthquakes of this magnitude makes it difficult to identify the amount of damage which could be caused locally and regionally; however, a Level III earthquake is expected to result in widespread and extensive damage to Glendale's facilities.

MOBILIZATION

Glendale's primary objective and initial response to an emergency will be to determine the level of mobilization necessary to save lives, maintain personnel and public safety, and provide for the delivery of water. Initial preliminary inspection of Glendale's facilities after an earthquake will dictate the level of mobilization that is required.

Mobilization levels have been defined as follows:

TABLE 1-1

	Richter Scale	Mercalli Scale	Level of Mobilization
LEVEL I:	4.0 to 4.9	V	Limited Mobilization required (No damage or minor damage)
LEVEL II:	5.0 to 5.9	VI-VII	Intermediate Mobilization required (moderate damage occurred)
LEVEL III:	6.0 to 8.0	VIII-XII	Full Mobilization required (Major damage occurred)

LEVEL 1

IF INCIDENT OCCURS DURING WORKING HOURS: Richter Scale 4.0 to 4.9

- Water Facilities Supervisor will arrange staffing with the assistance of the Water Superintendents to conduct "Emergency Response Inspection of Facilities," and complete the inspection form.
- Inspectors will notify the Water Facilities Supervisor and Water Superintendents that inspections have commenced
- When inspections have been completed, inspectors will contact Water Facilities Supervisor and Water Superintendents to report on damage to system
- Water Superintendents will make arrangements for system repairs
- Water Superintendents will be responsible for keeping Water Services Administrator advised of system status

IF INCIDENT OCCURS AFTER WORKING HOURS: Richter Scale 4.0 to 4.9

- "Stand-by" personnel and Water Section Safety Supervisor will initiate and conduct "Emergency Response Inspection of Facilities," and complete inspection forms
- "Stand-by" person will notify Glendale Dispatch and Water Superintendents that inspections have commenced
- When inspections have been completed, "Stand-by" person will contact Glendale Dispatch and Water Superintendents and report on damage to system
- Water Superintendents or designee s person will make arrangements for system repairs
- Water Superintendent or designee person will be responsible for keeping Assistant General Manager Water Services advised of system status

LEVEL II

IF INCIDENT OCCURS DURING WORKING HOURS: Richter Scale 5.0 to 5.9

- Assistant General Manager Water Services will report to EOC
- The Water Superintendents and Principal Civil Engineer will remain at work and ask all Water Section employees to remain at work
- Water Facilities Supervisor will arrange staffing with the assistance of the Water Superintendents to conduct "Emergency Response Inspection of Facilities" and complete inspection form
- Inspectors will notify the Water Facilities Supervisor and Water Superintendents that inspections have commenced
- When inspections have been completed, inspectors will contact Water Facilities Supervisor and Water Superintendents to report on damage to system
- Water Superintendents will make arrangements for system repairs
- A Water Section registered engineer will inspect all tanks, reservoirs, and pumping plants; complete inspection form and report to Assistant General Manager Water Services
- Water Superintendents will be responsible for keeping Assistant General Manager Water Services advised of system status
- Assistant General Manager Water Services or designee will evaluate the need for a "Boil Water Advisory" depending on extent of damage
- Water Quality Specialist will commence collection of water samples for analysis in the vicinity of severe damages

IF INCIDENT OCCURS AFTER WORKING HOURS: Richter Scale 5.0 to 5.9

- All employees report to work
- Assistant General Manager Water Services will report to EOC
- "Stand-by" personnel will notify Glendale Dispatch and Water Superintendents that inspections have commenced and request back-up staff, if needed
- "Stand-by" personnel and Water Section Safety Supervisor will initiate and conduct "Emergency Response Inspection of Facilities" and complete inspection form

Glendale Water & Power Department
Emergency Plan 2010
Water Section

- When inspections have been completed, "Stand-by" personnel will contact Glendale Dispatch and Water Superintendents to report on damage to system
- Water Superintendents or designee person will make arrangements for system repairs
- Water Superintendents will be responsible for keeping Assistant General Manager Water Services advised of system status
- A Water Section registered engineer will inspect all tanks, reservoirs, and pumping plants; complete inspection form and report to Assistant General Manager Water Services
- Assistant General Manager Water Services or designee will evaluate the need for a "Boil Water Advisory" depending on extent of damage
- Water Quality Specialist will commence collection of water samples for analysis near severe damages

LEVEL III

IF INCIDENT OCCURS DURING WORKING HOURS: Richter Scale 6.0 to 8.0

This level requires full mobilization of all employees and resources with all employees reporting to work. All emergency response efforts will be coordinated through EOC.

- Assistant General Manager Water Services will report to EOC
- Assistant General Manager Water Services or designee will immediately issue a "Boil Water Advisory"
- Water Quality Specialist to commence collection of water samples for analysis near severe damages
- The Water Superintendents and Principal Engineer will ask all Water Section employees to remain at work
- Water Facilities Supervisor will arrange staffing with the assistance of the Water Superintendents to conduct "Emergency Response Inspection of Facilities," and complete inspection form
- Inspectors will notify the Water Facilities Supervisor and Water Superintendents that inspections have commenced
- When inspections have been completed, inspectors will contact Water Facilities Supervisor and Water Superintendents to report on damage to system

- Water Superintendents will make arrangements for system repairs
- Water Superintendents will be responsible for keeping Assistant General Manager Water Services advised of system status
- A Water Section registered engineer will inspect all tanks, reservoirs, and pumping plants; complete inspection form and report to Assistant General Manager Water Services

IF INCIDENT OCCURS AFTER WORKING HOURS: Richter Scale 6.0 to 8.0

- Assistant General Manager Water Services, Water Superintendents, Supervising Engineers, Supervising Field Personnel and field staff will report to work
- Assistant General Manager Water Services will report to EOC
- Assistant General Manager Water Services or designee will immediately issue a "Boil Water Advisory"
- Water Quality Specialist will commence collection of water samples for analysis in the vicinity of severe damages.
- "Stand-by" personnel will notify Howard Substation and Water Superintendents that inspections have commenced and request back-up staff, if needed
- "Stand-by" personnel and Water Section Safety Supervisor will conduct "Emergency Response Inspection of Facilities" and complete appropriate forms
- When inspections have been completed, "Stand-by" personnel will contact Glendale Dispatch and Water Superintendents to report on damage to the system
- Water Superintendents or designee person will make arrangements for system repairs
- Water Superintendents or designee person will be responsible for keeping Assistant General Manager Water Services advised of system status
- A Water Section registered engineer will inspect all tanks, reservoirs, and pumping plants; complete inspection form and report to Assistant General Manager Water Services

(SAMPLE)

NOTIFICATION TO RESIDENTS OF GLENDALE

DATE _____

**THE CITY OF GLENDALE WATER DEPARTMENT
EMERGENCY BOIL WATER ORDER**

Due to the recent earthquake (or other emergency situation), the City of Glendale Water Department in conjunction with the California Department of Public Health is advising residents (or describe specific area) to use boiled tap water or bottled water for drinking and cooking purposes as a safety precaution. **All tap water used for drinking and cooking should be boiled for at least 1 minutes.** An alternative method of purification for residents that do not have gas or electricity available is to use unscented liquid household bleach (Clorox, Purex, etc.). To do so, add 8 drops of bleach per gallon of clear or 16 drops per gallon of cloudy water mix thoroughly, and allow standing for 30 minutes before using. A chlorine-like taste and odor will result from this purification procedure and is an indication that adequate disinfection has taken place. Water purification tablets may also be used by following the manufacturer's instructions.

Failure to follow this advisory could result in stomach or intestinal illness.

The Water Department will notify residents immediately as soon as it is determined that the water is safe to drink.

For more information call:

Glendale Water Department: Working Hours: (819) 548-3962 (Water Quality Section)
After Hours: (818) 548-2011

California Department
of Public Health: 213 580-5723/5725 General Information
Fax: 213/580-5711

Los Angeles County
Department of Health Svcs: Water & Sewage@626) 430-5380
FAX: (626) 269-4327 (626)-813-3016

WATER SECTION
EMERGENCY RESPONSE INSPECTION OF FACILITIES
PATROL ROUTE No. 1

Date: _____
Time of Occurrence: _____
Richter Reading: _____
Epicenter: _____

Inspector: Frank Williams

LIST OF FACILITY	CHECKED BY	TIME	DAMAGE
			REPORT
Cooks Canyon Tank & PS			
Dunsmore Tanks			
Markridge Reservoir & PS			
New York Reservoir & PS			
Shirley Jean Booster (Oakmont Woods)			
Glorietta Wells 3, 4, 6			
Verdugo Wells A & B			
VPWTP			
San Luis Rey PS			

Comments: _____

* If damaged, notify appropriate personnel in Department of Water Resources Division of Safety of Dams – See T AB 10 for contacts and phone numbers.

PS - Pumping Station
RW - Recycled Water

Notes:

1. After inspection, notify Water Superintendent of inspection results. If damage to structures, major leaks, broken bolts, buckled tanks, slope failure or check valves, notify Water Superintendent immediately.

2. Inspect the interior and exterior of pumping plants, exterior of tanks, and the exterior of below-ground reservoirs.

WATER SECTION
EMERGENCY RESPONSE INSPECTION OF FACILITIES
PATROL ROUTE No. 2

Date: _____
Time of Occurrence: _____
Richter Reading: _____
Epicenter: _____

Inspector: Kevin Weekley

LIST OF FACILITY	CHECKED BY	TIME	DAMAGE
			REPORT
Glorietta Park Res & PS			
Old Glorietta PS			
Fern Lane Tank & PS (RW)			
Park Manor Res & PS			
Freeway Tank (RW)			
Verdugo Reservoir			
Glendale Heights Tank			
Glendale Heights PS			

Comments: _____

* If damaged, notify appropriate personnel in Department of Water Resources Division of Safety of Dams – See T AS 10 for contacts and phone numbers.

PS - Pumping Stations
RW - Recycled Water

Notes:

1. After inspection, notify Water Superintendent of inspection results. If damage to structures, major leaks, broken bolts, buckled tanks, slope failure or check valves, notify Water Superintendent immediately.
2. Inspect the interior and exterior of pumping plants, exterior of tanks, and the exterior of below-ground reservoirs.

WATER SECTION
EMERGENCY RESPONSE INSPECTION OF FACILITIES
PATROL ROUTE No. 3

Date: _____
Time of Occurrence: _____
Richter Reading: _____
Epicenter: _____

Inspector: Albert Peterson

LIST OF FACILITY	CHECKED BY	TIME	DAMAGE
			REPORT
Verdugo - Metro			
MWD G-2			
Glenoaks 968* Tank & PS			
Lower Scholl Canyon PS (RW)			
Glenoaks 1290 Tank & PS			
Glenoaks 1666 Tanks			
Glendale Tank (RW)			
Upper Scholl Canyon Tank & PS (RW)			
Scholl Canyon Tank & PS			
Glendale High PS (RW)			

Comments: _____

* If damaged, notify appropriate personnel in Department of Water Resources Division of Safety of Dams – See TAB 10 for contacts and phone numbers.

PS - Pumping Stations
RW - Recycled Water

Notes:

1. After inspection, notify Water Superintendents of inspection results. If damage to structures, major leaks, broken bolts, buckled tanks, slope failure or check valves, notify Water Superintendent immediately.
2. Inspect the interior and exterior of pumping plants, exterior of tanks, and the exterior of below-ground reservoirs.

WATER SECTION
EMERGENCY RESPONSE INSPECTION OF FACILITIES
PATROL ROUTE No. 4

Date: _____
Time of Occurrence: _____
Richter Reading: _____
Epicenter: _____

Inspector: Tim Doyle

LIST OF FACILITY	CHECKED BY	TIME	DAMAGE
			REPORT
Diederich Res & PS			
Melwood Re & PS			
Rossmoyne 1666 Tanks & PS			
Rossmoyne Res & PS			
San Luis Rey Tanks			
Western Res & PS & MWDG-3			
Brand Park Res			
Grandview Tank (RW)			
Allen Tank & PS			
Grandview Basins			

Comments: _____

* If damaged, notify appropriate personnel in Department of Water Resources Division of Safety of Dams – See T AB 10 for contacts and phone numbers.

PS - Pumping Stations
RW - Recycled Water

NOTES:

1. After inspection, notify Water Superintendent of inspection results. If damage to structures, major leaks, broken bolts, buckled tanks, slope failure or check valves, notify Water Superintendent immediately.
2. Inspect the interior and exterior of pumping plants, exterior of tanks, and the exterior of below-ground reservoirs.

**WATER SECTION
EMERGENCY RESPONSE INSPECTION OF FACILITIES
PATROL ROUTE No. 5**

Date: _____
Time of Occurrence: _____
Richter Reading: _____
Epicenter: _____

Inspector: _____

LIST OF FACILITY	CHECKED BY	TIME	DAMAGE
			REPORT
Chevy Chase 968 Res* & PS			
Chevy Chase 1290 Res *& PS			
Emerald Isle 1290 PS			
Linda Vista PS			
Chevy Chase 1666 Tank & PS			
Chevy Chase 1810 Tank			
Emerald Isle 1666 Tank			
Emerald Isle 1666 PS			
Emerald Isle 1850 Tank			

Comments:

* If damaged, notify appropriate personnel in Department of Water Resources Division of Safety of Dams – See T AS 10 for contacts and phone numbers.

PS - Pumping Stations

RW - Recycled Water

Notes:

1. After inspection, notify Water Superintendent of inspection results. If damage to structures, major leaks, broken bolts, buckled tanks, slope failure or check valves, notify Water Superintendent immediately.

2. Inspect the interior and exterior of pumping plants, exterior of tanks, and the exterior of below-ground reservoirs.

Fire Emergency

A fire emergency on the water distribution system can occur for a variety of reasons. This can include fire at a water facility, a major fire at a major non-water facility such as a high-rise building or major commercial facility, a series of fires throughout the City from an earthquake, a major brush, or multi-building fire creating a conflagration in a single area.

The Water Section involvement in these different situations varies. In one case, the fire at a water facility could create water delivery problems on the water system, and the others relate to the delivery of water to control a fire in the City. Depending on the severity of the fire, the Water Section could have a differing level of involvement.

The Water Superintendent's primary role will be to identify the Water Section response. Their secondary role is to keep the Assistant General Manager Water Services informed of what is happening. The material below describes the Water Section's response to fire emergencies.

FIRE AT A WATER FACILITY

The water facilities in the City contain significant mechanical and electrical equipment. Like other types of structures, they are vulnerable to fires from sources inside and from the outside. In the future, all structures will contain smoke detectors connected to the SCADA system used for the computerized operation of the water facilities. An alarm will go to Glendale Dispatch indicating a fire.

IF THE FIRE OCCURS DURING WORKING HOURS:

- Glendale Dispatch will contact the Fire Department, Water Superintendents and the Water Section Safety Supervisor
- The Water Superintendents will dispatch the appropriate staff members to review the situation
- The Water Superintendent s will work with their staff to identify any changes in water system operation that may be required if the facility is no longer operational and he will begin identifying corrective actions

IF THE FIRE OCCURS AFTER WORKING HOURS:

- Glendale Dispatch will contact Fire Department Dispatch then Stand-By person, Water Superintendents and Water Section Safety Supervisor

IF THE FIRE OCCURS AFTER WORKING HOURS:

- The Water Superintendents will dispatch the appropriate staff members to review the situation
- The Water Superintendents will work with their staff to identify any changes in water system operation that may be required if the facility is no longer operational and they will begin identifying corrective actions

MAJOR STRUCTURE OR BRUSH FIRE

In case of a major structure or brush fire in the City, the primary need for the Water Section is to make sure an adequate water supply is available. A major structure fire is classified as a Class 2 Alarm Fire or greater. Depending on the location and magnitude of the fire, the Water Section staff will respond. In the Elevation 724 service zone there are many large reservoirs that could provide an almost endless supply of water. Also, the City's major structures are located in this Service Zone. The chances of running out of water to fight a fire are remote. In the upper service zones of the City the amount of stored water is considerably less. In these areas, the Water Section staff will need to pay close attention to reservoir storage conditions. Water Section Safety Supervisor will be on scene to ensure the safety of water personnel.

IF THE FIRE OCCURS DURING WORKING HOURS - In Elevation 724 Service Zone:

- A Trouble Shooter is to be dispatched to the site of the fire to make sure water is available from the hydrant for fire suppression
- In the Elevation 724 Service Zone, the staff member can leave after water availability is assured
- The Water Facility Operators will be asked by the Trouble Shooter to review the status of water storage in reservoirs serving the fire.

IF THE FIRE OCCURS DURING WORKING HOURS-Outside Elevation 724 Svc. Zone:

- Trouble Shooter is to remain on site until the fire is over
- Trouble Shooter is to request that Water Facility Operators review the status of water storage in reservoirs serving the fire.

- The Water Facility Operators will be asked by the Trouble Shooter to physically check the water levels in the reservoir for verification of storage conditions, and the operational status of the pumping plant delivering water into the reservoir of concern

IF THE FIRE OCCURS AFTER WORKING HOURS (ALL SERVICE ZONES):

- Glendale Dispatch will dispatch "Stand-by" person to the fire location
- "Stand-by" person will ensure that water is available
- The identical procedures as above are to be observed except that Water Facility Operators are to be called in if the "Stand-by" person deems it necessary

MAJOR CONFLAGRATION

If there is a major brush fire such as the College Hills fire or a fire involving many major structures in close proximity creating a high level of water needs, the Water Section staff will closely monitor water availability in reservoirs serving the fire and at the fire location. This is especially critical in areas outside of the Elevation 724 Service Zone. It is highly likely that the City's Emergency Operations Center will be activated for this type of disaster. Water Section Safety Supervisor will be on scene to ensure the safety of water personnel.

IF THE FIRE OCCURS DURING WORKING HOURS:

- The Water Superintendents will make arrangements to immediately review the reservoir storage conditions in the affected areas.
- In areas outside of the Elevation 724 Service Zone, Water Facility Operators will be dispatched to the reservoirs serving the fire to verify water levels and the operational status of the pumping plant serving the reservoir
- Water Section staff will be dispatched to the fire location to make sure there are no problems with water availability from the fire hydrants
- Water Section staff will stay at the fire location until the fire is over
- Water Facility Operators will be asked to periodically visit the storage reservoirs to verify the actual reservoir storage levels and operational status of the pumping stations. This will be especially critical in areas outside of the Elevation 724 Service Zone.

IF THE FIRE OCCURS AFTER WORKING HOURS:

- The procedure will be the same as above except that Glendale Dispatch will notify the Stand-By person and the Water Superintendent that a major fire is occurring in the City.

Water Quality Emergency Procedures

A Water Quality Emergency in the distribution system arises when there is or could be contamination of the drinking water. A problem could be identified because of a known contamination of the water supply or could be suspected by a change in the color of the water, the taste of the water, the smell of the water, persistent citizen calls of similar nature, complaints of stomach problems such as diarrhea and dizziness or something else unusual about the water. The problem could arise from an earthquake or other natural disaster, a failure in water treatment or a significant breakdown in the distribution system.

If the Incident Occurs:

During Normal Working Hours:

- ~ The first responder/Incident Commander will be the Water Troubleshooters, or Principal Water Quality Specialist, who:
- ~ Confirms that there is a Water Quality problem, and its magnitude.
- ~ Reports the status to the Water Superintendents, or designee, and the Assistant General Manager Water Services .

Water Superintendents/Designee:

- ~ Dispatches qualified person to area to take additional samples, and arranges for testing (see list of qualified samplers, who are listed according to priority)
- ~ Arranges for personnel to take appropriate action.
- ~ Notifies Assistant General Manager Water Services or designee.

During Non-Regular scheduled Working hours:

- ~ The first responder is the Water Stand-by person who:
- ~ Confirms that there is a Water Quality problem, and its magnitude.
- ~ Reports on the status to the Water superintendents, or designee.

Water Superintendents/Designee:

- ~ Dispatches Principal Water Quality Specialist, or other qualified samplers to area to take additional samples, and arranges for testing (see list of qualified samples).
- ~ Arranges for personnel to take appropriate action.
- ~ Notifies Assistant General Manager Water Services or designee.

If the incident is determined to be minor to moderate, wherein local resources are adequate and available, procedures will continue similar to day to day operations. If the incident becomes more severe, proceed to take action per Level II/III of the emergency plan.

If water sampling is required, see water sampling procedure advisory. If a "Boil Water Advisory" is required, see the Boil Water Emergency Procedure.

The Water Services Administrator or designee will review, in consultation with the City Management and health agencies, the need for corrective action, additional water quality sampling and analysis, or an Emergency Boil Water Advisory.

CONTACT INDIVIDUALS

David Massie Water Superintendent	Work 818 548-2011 Home 626 914-0148 Cell 818 -314-7788
Mike Romagnino	Work 818-548-2011 Home 818-768-3610 Cell 818-254-5702
Peter Kavounas, Water Services Administrator	Work 818 548-2137 Home 661 253-1506 Cell 818 378-3131
Dan Askenaizer, Senior Environmental Program Specialist	Work 818 551-6906 Home 626 398-7058 Cell 818 245-0443

Emergency Water Quality Sampling

During working hours, Principle Water Quality Specialist will send or take samples for analysis to:

MWH
14201 Franklin Avenue
Tustin, CA 92680
(714) 730-6239

After working hours, Principle Water Quality Specialist, Water Superintendents, or Assistant General Manager Water Services will contact the Metropolitan Water District and arrange to transport samples to Metropolitan for analysis:

Metropolitan Water District
of Southern California
Eagle Rock Center - 24 hours service
(323) 681-4010

Trained Water Samplers:

Andrey Ayvazyan	(W) 818/548-3966	(H) 818/345-1652	(Cell) 818/482-9280
Scott Daly	(W) 818/548-3396	(H) 661/272-6861	(Cell) 818/482-9029
Ray Notario	(W) 818/548-3962	(H) 213/258-2911	(Cell) 818/482-9498

Backup Trained Water Samplers:

Luis Hernandez	(W) 818/548-2011	(H) 909/460-2864	(Cell) 818/291-3274
Robee Bailey	(W) 818/548-2011	(H) 323/258-5175	(pager) 818/315-0061

Location of Bottles for- Emergency Sampling:

GWP Water Engineering
141 N. Glendale Ave, 4th Level
Glendale, CA 91206
In a Green Cooler (located in water section)
For Bacteriologic Testing-Bottles are labeled Coli-Pa or MICRO
(24 Hours/Presence/Absence Test for Coli form)

Emergency Boil Water Advisory

EMERGENCY BOIL WATER ADVISORY

BACKGROUND

In the event that damage has occurred to Glendale's or the Metropolitan Water District of Southern California's treatment plants and/or distribution systems, the possibility of contamination exists. The damage to facilities could be the result of an earthquake, other natural disaster, or a severe treatment plant or distribution system accident. The boil water advisories outline water purification procedures as a precaution, until Glendale notifies consumers that the water is safe to drink. This section contains boil water advisories. Boil water advisories will be issued by Glendale to water customers, as authorized by the Water Services Administrator or his designee.

CRITERIA FOR ISSUING BOIL WATER ADVISORY

Criteria for issuance of a boil water advisory to consumers in an emergency situation:

- a. Known discharge of wastewater or any foreign substances into drinking water supply system;
- b. Significant loss of pressure in distribution system pipelines;
- c. Confirmed analytical evidence of microbiological contamination of the drinking water supply; or
- d. Extensive treatment process failure resulting in water that is unsafe to drink.

Although similar criteria would be an integral part of any decision to issue a boil water advisory, they do not mandate boil water advisory. However, these criteria would certainly result in notification to California Department of Health Services (CDHS). The boil water advisory would remain in effect until a firm determination is made that the water is safe for consumption. Any decision to rescind a boil water advisory would be coordinated with CDHS.

GEOGRAPHIC EXTENT OF ADVISORY

When necessary, boil water advisory will be restricted to those areas affected by any of the criteria mentioned above. The Assistant General Manager Water Services, the Water Superintendents and/or the Principal Water Quality Specialist will determine the geographic extent of the advisory.

DISTRIBUTION OF BOIL WATER ADVISORY

Several procedures will be used in order to effectively distribute the advisories to all water consumers in an affected area. For immediate notification to water consumers, the advisories will be disseminated through the use of radio and television announcements. Specific geographic boundaries for the advisories will be defined in the announcements. For smaller focused areas, local law enforcement officials may be used to read boil water advisories over loud speakers and/or distribute boil water advisory fliers. In addition, notices will be carried and posted at readily visible locations such as building entrances, telephone poles and commercial establishments and possibly distributed door-to-door. The following groups will be notified.

GLENDALÉ MANAGEMENT NOTIFICATION

<u>NAM2</u>	<u>TITLE</u>	<u>PHONE</u>
J. Starbird	City Manager	Work- 818-548-4844 Home- 818-500-9818
Glenn Steiger	General Manager GWP	Work- 818-548-2107 Home- 818-518-0122

REGULATORY NOTIFICATION

<u>NAME</u>	<u>AGENCY</u>	<u>PHONE</u>
Jeff O' Keefe	California Department of Public Health	(W) 818-551-2044 (H) 323-280-3406
Thomas Tsui	"	(W) 818-551-2017 (H) 626-570-0248
Stefan Cajina	"	(W) 213/580-3127 (H) 213/482-2606
Willie Trask	Metropolitan Water District of Southern California	(W) 909/223-9550 (H) 626-570-0248

MEDIA, OTHER GLENDALÉ STAFF NOTIFICATIONS

See following material.

WATER QUALITY RESTORATION

The Assistant General Manager Water Services or designee will identify specific actions in order to correct the water quality problem

BOIL WATER ADVISORY FLYER TO RESIDENTS

The boil water advisory would be hand carried and posted at readily visible locations in the affected area, such as building entrances and utility poles. In addition, these fliers would be distributed to commercial establishments in the affected area, posted in storefront windows and used as shopping-bag stuffers. If the impacted area is small, fliers may be distributed door-to-door, possibly with the help of law enforcement officials. The geographic boundaries for the boil water advisory will be clearly defined.

The notice advises residents of the affected area to boil their tap water as a safety precaution due to the recent emergency situation. The residents are asked to boil their water until Glendale is able to complete water quality analysis and can assure that the water is safety to drink.

(SAMPLE)

NOTIFICATION TO RESIDENTS OF GLENDALE

DATE _____

**THE CITY OF GLENDALE WATER DEPARTMENT
EMERGENCY BOIL WATER ORDER**

Due to the recent earthquake (or other emergency situation), the City of Glendale Water Department in conjunction with the California Department of Public Health is advising residents (or describe specific area) to use boiled tap water or bottled water for drinking and cooking purposes as a safety precaution. **All tap water used for drinking and cooking should be boiled for at least 1 minutes.** An alternative method of purification for residents that do not have gas or electricity available is to use unscented liquid household bleach (Clorox, Purex, etc.). To do so, add 8 drops of bleach per gallon of clear or 16 drops per gallon of cloudy water mix thoroughly, and allow standing for 30 minutes before using. A chlorine-like taste and odor will result from this purification procedure and is an indication that adequate disinfection has taken place. Water purification tablets may also be used by following the manufacturer's instructions.

Failure to follow this advisory could result in stomach or intestinal illness.

The Water Department will notify residents immediately as soon as it is determined that the water is safe to drink.

For more information call:

Glendale Water Department: Working Hours: 819- 548-3962 Water Quality Section
After Hours: 818- 548-2011

California Department
of Public Health: General Information:818-551-2004
Fax: 818-551-2054

Los Angeles County
Department of Public Health: Water & Sewage: 626- 430-5200
FAX: 626- 269-4327 / 626-813-3000

(SAMPLE)

NOTIFICATION TO RESIDENTS OF GLENDALE

DATE _____

**THE CITY OF GLENDALE WATER DEPARTMENT
EMERGENCY BOIL WATER ORDER**

Due to the recent earthquake (or other emergency situation), the City of Glendale Water Department in conjunction with the California Department of Public Health is advising residents (or describe specific area) to use boiled tap water or bottled water for drinking and cooking purposes as a safety precaution. **All tap water used for drinking and cooking should be boiled for at least 1 minutes.** An alternative method of purification for residents that do not have gas or electricity available is to use unscented liquid household bleach (Clorox, Purex, etc.). To do so, add 8 drops of bleach per gallon of clear or 16 drops per gallon of cloudy water mix thoroughly, and allow standing for 30 minutes before using. A chlorine-like taste and odor will result from this purification procedure and is an indication that adequate disinfection has taken place. Water purification tablets may also be used by following the manufacturer's instructions.

Failure to follow this advisory could result in stomach or intestinal illness.

The Water Department will notify residents immediately as soon as it is determined that the water is safe to drink.

For more information call:

Glendale Water Department: Working Hours: (819) 548-3962 (Water Quality Section)
After Hours: (818) 548-2011

California Department
of Public Health: 213 580-5723/5725 General Information
Fax: 213/580-5711

Los Angeles County
Department of Health Scvs: Water & Sewage@626) 430-5380
FAX: (626) 269-4327 (626)-813-3016

(SAMPLE)
EMERGENCY BOIL WATER ORDER NOTICE TO MEDIA

PRESS RELEASE

City of Glendale Water & Power Department – 141 N. Glendale Avenue, CA 91206- (818) 548-2107 – FAX (818) 552-2852

For Immediate Release

Date: _____
Contact: Glenn Steiger, General Manager, Glendale, Water and Power
Peter Kavounas, Assistant General Manager, Water Services
Dan Askenaizer, Senior Environmental Program Specialist
Ray Notario, Principal Water Quality Specialist
Phone: Working Hours – (818) 548-2107, (818) 548-2137, and (818) 548-3966
After Hours – (818) 548-2011
FAX: (818) 552-2852

GLENDALÉ WATER-EMERGENCY BOIL WATER NOTICE

This is an official notice from the City of Glendale Water Department.

During the earthquake (or other emergency situation) the water treatment and distribution system operated by the City of Glendale Water Department suffered extensive damage. The area affected by this notice include the entire City (or define specific area). Water quality tests are underway to assure that the water is safe to drink. As a precaution, until the water quality tests are completed, the Water Department is advising residents to only use boiled tap water or bottled water for drinking and cooking purposes. All tap water used for drinking or cooking should be boiled for at least 1 minute. An alternative method of purification for residents that do not have gas or electricity available is to use unscented liquid household bleach (Clorox, Purex, etc.). To do so, add 8 drops of bleach per gallon of clear or 16 drops per gallon of cloudy water, mix thoroughly, and allow to stand for 30 minutes before using. A chlorine-like taste and odor will result from this purification procedure and is an indication that adequate disinfection has taken place. Water purification tablets may also be used by following the manufacturer's instructions.

Failure to follow this advisory could result in stomach or intestinal illness.

The Water Department will notify residents as soon as it can be determined that the water is safe to drink.

For further information or questions regarding your water, call the Water Department at (818) 548-3962

**BOIL WATER ADVISORY ANNOUNCEMENT TO
OTHER GLENDALE DIVISIONS**

Emergency situations may require cooperation from or coordination with other Glendale offices in assisting the residents with other individual concerns and questions. In order to thoroughly assist the public and to disseminate consistent information, the boil water advisory will be distributed to other Glendale offices listed below:

<u>Group</u>	<u>Attention</u>	<u>Phone #</u>	<u>Fax #</u>
1. Emergency Office Center	Cpt. Tom Propst	818/548-2121	818/545-4325
2. Water Engineering	Dan Askenaizer	818/548-2062	818/240-4754
3. UOC - Water	Dave Massie	818/548-2011	818/543-1428
4. Customer Services	Tami Vallier	818/548-3300	818/240-9418
5. Management Services	City Manager/ Public Affairs Officer/ Rich Wells	818/548-4844	818/547-6740

BOIL WATER ADVISORY ANNOUNCEMENT TO MEDIA

This notice is designed to be disseminated through electronic media and will be utilized to give **immediate** notice to water consumers of a water quality emergency. The geographic boundaries for the boil water advisory will be clearly defined.

The notice outlines water purification procedures to be used by the consumer as a precaution, until Glendale notifies consumers that the water is safe to drink.

<u>GROUP</u>	<u>PHONE</u>	<u>FAX</u>
KFWB		(213) 871-4670
KNX		(213) 460-3275
LA TIMES		(818) 547-2187
NEWS PRESS		(818) 241-1975
DAILY NEWS		(818) 546-3303
FOOTHILL LEADER		(818) 249-6563
CHANNEL 2 (CBS)		(213) 460-3733
CHANNEL 4 (NBC)		(818) 840-3535
CHANNEL 5 (KTLA)		(213) 460-5333
CHANNEL 7 (ABC)		(310) 557-5036
CHANNEL 9 (KCAL)		(213) 464-2526
CHANNEL 11 (FOX)		(213) 467-6938
CNN		(213) 460-9081
ASSOCIATED PRESS		(213) 346-0200
UNITED PRESS INT'L		(213) 620-1237
CITY OF BURBANK E. O. C.		(818) 972-1018
CV SHERIFF		(818) 957-0256
ORANGE COUNTY REGISTER		(714) 542-5037
MEDIA PAGE		(310) 838-4495
CITY NEWS		(213) 465-7236
KIEV RADIO		(213) 245-5438
KCOP		(213) 850-1265
CHARTER COMMUNICATIONS		(818) 242-9553

**BOIL WATER ADVISORY ANNOUNCEMENT
TO SPECIAL AGENCIES**

The notice will be disseminated to various special agencies that require prompt notification of the boil water order to avoid serious health problems to the consumers. The notice outlines water purification procedures to be used by the consumer as a precaution, until Glendale notifies consumers that the water is safe to drink.

Hospitals:

- | | | |
|----|---|---------------------------------------|
| 1. | Glendale Adventist Medical Center
1509 Wilson Terrace | 818/409-8000
FAX 818/546-5640 |
| 2. | Verdugo Hills Hospital
1812 Verdugo Boulevard | (818) 790-7100
FAX: (818) 952-3597 |
| 3. | Glendale Memorial Hospital
125 W. Laurel Street | 818/502-1900 |
| 4. | Glenoaks Convalescent Hospital
409 W. Glenoaks Boulevard | 818/240-4300
FAX 818/247-0949 |

Residential Care:

- | | | |
|----|---|-----------------------------------|
| 1. | Broadview Residential Care Center
535 W. Broadway | 818/246-4951
FAX 818/243-0437 |
| 2. | Casa Glendale Retirement Hotel
426 Piedmont Avenue | 818/246-7457
FAX 818/246-3344 |
| 3. | Glendale Verdugo Homes
917 E. Glenoaks | 818/507 -5048
FAX (NONE) |
| 4. | Windsor Manor
430 N. Glenoaks Avenue | 818/ 244-7219
FAX 818/240-3887 |

Glendale Water & Power Department
Emergency Plan 2010
Water Section

Residential Care:

- | | | |
|-----|--|----------------------------------|
| 5. | Casa de la Paloma
133 S. Kenwood | 818/243-0337
818/243-5881 Fax |
| 6. | Glen Park Residences
1220 Mariposa | 818/242-9000
818/242-3972 Fax |
| 7. | Glen Park Residences
1250 Boynton | 818/246-9000
818/242-3972 Fax |
| 8. | Leisure Vale Retirement Home
413 E. Cypress | 818/244-2323
818/244-3147 Fax |
| 9. | Los Feliz Gardens
205 E. Los Feliz | 818/241-2273
818/548-5881 Fax |
| 10. | Glendale Silvercrest
323 W. Garfield | 818/543-0211 |
| 11. | So. California Presbyterian Homes
516 Burchett Street | 818/247-0420
818/247-3871 Fax |
| 12. | Verdugo Valley Convalescent
Hospital 2635 Honolulu | 818/248-6856
818/957-2575 |
| 13. | Broadway Manor Convalescent Hospital
605 W. Broadway | 818/246-7174
818/246-7635 Fax |

Glendale Water & Power Department
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Water Section

<u>Public Schools</u>	<u>Grade</u>	
1. Crescenta Valley High	9-12	818/249-5871 FAX 818/541-9531
2. Glendale High	10-12	818/242-3161 FAX 818/244-6309
3. Herbert Hoover High	9-12	818/242-6801 FAX 818/247-8825
4. Allan F. Daily High	9-12	818/247-4805 FAX 818/547-3081
5. Theodore Roosevelt Middle High	7-9	818/242-6845 FAX 818/552-5188
6. Rosemont Middle	7-8	818/242-4224 FAX 818/248-3790
7. Eleanor J. Toll Middle	7-8	818/244-8414 FAX 818/500-1487
8. Woodrow Wilson Middle	7-9	818/244-8145 FAX 818/244-2050
9. Balboa	K-6	818/241-1801 FAX 818/241-5557
10. Cerritos	K-6	818/244-7207 FAX 818/247-2532
11. Columbus	K-6	818/242-7722 FAX 818/247-2542
12. Dunsmore	K-6	818/248-1758 FAX 818/249-7918
13. Thomas Edison	K-6	818/241-1807 FAX 818/241-8028
14. Benjamin Franklin	K-6	818/243-1809 FAX 818/552-5097

Glendale *Water & Power* Department
Emergency Plan 2010
Water Section

Schools:

Public Schools

Grade

15.	John C. Freemont	K-6	818/249-3241 FAX 818/249-7921
16.	Glenoaks	K-6	818/242-3747 FAX 818/247-4423
17.	Thomas Jefferson	K-6	818/243-4279 FAX 818/551-1069
18.	Mark Keppel	K-6	818/244-2113 FAX 818/507-6542
19.	La Crescenta	K-6	818/249-3187 FAX 818/248-3168
20.	Lincoln	K-6	818/249-1863 FAX 818/249-7876
21.	Horace Mann	K-6	818/246-2421 FAX 818/507-6238
22.	John Marshall	K-6	818/242-6834 FAX 818/242-1761
23.	Monte Vista	K-6	818/248-2617 FAX 818/248-5263
24.	Mountain Avenue	K-6	818/248-7766 FAX 818/248-6352
25.	John Muir	K-6	818/241-4848 FAX 818/241-1058
26.	Verdugo Woodlands	K-6	818/241-2433 FAX 818/548-4173
27.	Richardson D. White	K-6	818/241-2164 FAX 818/409-8974

Glendale Water & Power Department
Emergency Plan 2010
Water Section

<u>Private Schools</u>		Grade	
1.	A Plus Adventist Elementary	K-2	818/241-9353 FAX 818/240-9485
2.	Armenian Sisters Academy	K-6	818/242-2512 FAX 818/242-4726
3.	Bonnie Day Kindergarten	K	818/244-3241 FAX 818/244-1242
4.	Calvary Christian Academy	K-6	818/244-9673 FAX 818/244-9851
5.	Chamlan Armenian School	1-8	818/957 -3399 FAX (NONE)
6.	Clearview School	K-12	818/846-6650 FAX (NONE)
7.	First Lutheran School	K-6	818/244-7319 FAX (NONE)
8.	Glendale Adventist Academy	K-12	818/244-8671 FAX 818/546-1180
9.	Glendale Christian School	K-6	818/247 -7557 FAX (NONE)
10.	Glendale Montessori	K-3	818/240-9415 FAX 818/240-8089
11.	Glendale Montessori Elementary	1-6	818/243-5172 FAX (NONE)
12.	Glendale Pre-School & Kindergarten	K	818/244-4567 FAX (NONE)
13.	Holy Family Elementary	K-8	818/243-9239 FAX (NONE)
14.	Holy Family High	9-12	818/241-3178 FAX 818/241-7753

Glendale Water & Power Department
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Water Section

<u>Private Schools</u>	Grade	
15. Holy Redeemer Elementary	K-8	818/957-3164 FAX 818/541-9006
16. Hosekeins Center, Inc.	6-12 (Handicapped)	818/243-5566 FAX (NONE)
17. Ida Read McCarthy School for Children	K	818/242-7934 FAX (NONE)
18. Incarnation Elementary	K-8	818/241-2269 FAX 818/507-4976
19. La Crescenta Christian School	K-3	818/249-5801 FAX 818/249-3948
20. La Crescenta Montessori School	K-4	818/249-5437 FAX (NONE)
21. Lutheran School of Foothills Mt. Olive	K-4	818/248-4141 FAX (NONE)
22. Mekhitarist Armenian School	K-8	818/249-6121 FAX 818/249-5883
23. Montrose Christian Montessori	K-6	818/249-2319 FAX 818/249-6290
24. Pennsylvania Avenue Kindergarten	K	818/249-6618 FAX (NONE)
25. Robbin's Nest School	K	818/248-7324 FAX (NONE)
26. Salem Lutheran Elementary	K-6	818/243-8264 FAX 818/240-7194
27. School House, The	1-6	818/952-2113 FAX (NONE)
28. St. Annes Montessori School	K	818/244-0111 FAX (NONE)

Glendale *Water & Power* Department
Emergency Plan 2009
Water Section

<u>Private Schools</u>		Grade	
29.	St. James the Less Elementary	K-8	818/248-7778 FAX (NONE)
30.	St. Mary's Armenian Church Tufenkian School	K	818/240-7030 FAX (NONE)
31.	Study Circle	K	818/241-7650 FAX (NONE)
32.	Tobin World	1-12 (Handicapped)	818/247-7474 FAX (NONE)
33.	Verdugo Valley	K (Handicapped)	818/244-8682 FAX 818/244-3720
34.	Zion Lutheran School	K-8	818/243-3119 FAX 818/243-9640

**RESCISSION OF BOIL WATER ADVISORY
TO RESIDENTS AND MEDIA**

This notice will be posted at readily visible locations throughout the affected areas, such as building entrances, commercial establishments and utility poles. In addition, this notice will be released to the media, and transmitted to water consumers through the newspaper, radio, television broadcasts and Customer Service Reverse Notification System.

This notice will be issued to cancel a boil water advisory, once water quality monitoring has been completed and analysis indicates that the water is safe to drink.

(SAMPLE)

PRESS RELEASE

**RESCISSION
TO BOIL
WATER
ADVISORY**

City of Glendale Water & Power Department – 141 N. Glendale Avenue, CA 91206- (818) 548-2107 – FAX (818) 552-2852

For Immediate Release

Date:

Contact:

Glenn Steiger, General Manager, Glendale Water and Power
Peter Kavounas, Assistant General Manager, Water Services
Dan Askenaizer, Senior Environmental Program Specialist
Ray Notario, Principal Water Quality Specialist

Phone:

Working Hours – (818) 548-2107, (818) 548-2137, and (818) 548-3966
After Hours – (818) 548-2011

FAX:

(818) 552-2852

GLENDALÉ WATER- THE WATER IS SAFE TO DRINK

This is an official notice from the City of Glendale Water Department.

The City of Glendale Water Department has determined that your water is safe to drink.

It is no longer necessary to boil your tap water or consume bottled water.

Glendale will continue to keep residents informed of the status of their drinking water quality.

For further information or questions regarding your water, call the Water Department at (818) 548-3962.

DATE _____
BOIL WATER ORDER

Glendale Water & Power (GWP)

Failure to follow this advisory could result in stomach or intestinal illness.

Coliform bacteria were found in the water supply on _____. These bacteria are indicators of possible fecal contamination. However, NO fecal coliform [or E. coli] bacteria were found. If present, these bacteria can make you sick, and are a particular concern for people with weakened immune systems.

Fecal coliforms and E.coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune system.

Due to the recent event, the California Department of Public Health in conjunction with the Glendale Water & Power are advising residents around the area of _____ to use boiled tap water or bottled water for drinking and cooking purposes as a safety precaution.

All tap water used for drinking or cooking should be boiled rapidly for at least 1 minute. This is the preferred method to assure that the water is safe to drink.

An alternative method of purification for residents that do not have gas or electricity available is to use fresh liquid household bleach (Chlorox, Purex, etc.). To do so, add 8 drops (or 1/4 teaspoon) of bleach per gallon of clear water or 16 drops (or 1/2 teaspoon) per gallon of cloudy water, mix thoroughly, and allow to stand for 30 minutes before using.

A chlorine-like taste and odor will result from this purification procedure and is an indication that adequate disinfection has taken place.

Water purification tablets may also be used by following the manufacturers' instructions.

Emergency water treatment and quality testing are being conducted by GWP to resolve this water quality emergency problem. The GWP will notify residents as soon as the water is safe to drink.

For more information call:

Water Utility contact: Dan Askenaizer – 818-551-6906; Peter Kavounas - 818-548-2137; Dave Massie/Mike Romagnino – 818-548-2011; Pat Hayes – 818-548-2065; Ray Notario – 818-548-3962

California Department of Public Health: Thomas Tsui – (818) 551-2004

DATE: _____

CANCELLATION OF BOIL WATER ORDER

On _____ you were notified of the need to boil/disinfect all tap water used for drinking and cooking purposes.

The City of Glendale *Water & Power* in conjunction with the California Department of Public Health has determined that, through abatement of the health hazard and comprehensive testing of the water, your water is safe to drink. **It is no longer necessary to boil you tap water or for you to consume bottled water.**

For more information call:

Water Utility contact: Dan Askenaizer – 818-551-6906; Peter Kavounas - 818-548-2137; Dave Massie/Mike Romagnino – 818-548-2011; Pat Hayes – 818-548-2065; Ray Notario – 818-548-3962

(Name, title and phone number of utility representative)

California Department of Public Health: Thomas Tsui – (818) 551-2004

Fecha - _____
ORDEN DE HERVIR EL AGUA (BOIL WATER ORDER)

Glendale Water & Power

El no cumplir con esta advertencia puede resultar en enfermedades estomacales o intestinales.

Bacterias coliformes fecales (o E. coli) fueron encontradas en su servicio de agua el día [_____]. Estas bacterias pueden enfermarle, y son especialmente peligrosas para personas con las defensas bajas o sistemas inmunológicos débiles.

Coliformes fecales o E. coli son bacterias cuya presencia indica que el agua esta contaminada con desechos humanos o de animales. Microbios de esos desechos pueden causar diarrea, cólicos, nausea, dolores de cabeza u otros síntomas. Pueden representar un peligro para la salud de bebés niños y niñas de corta edad y personas con sistemas inmunológicos en alto riesgo.

Debido al evento reciente, el Departamento de Publico de Salud de California, y el Sistema de Agua de Glendale advierten a los residentes de _____ que deben utilizar agua de la llave hervida o agua de botella para beber y cocinar, como medida de precaución.

Toda el agua de la llave que se emplee para beber o cocinar deber ser hervida rápidamente durante al menos 1 minuto. Este es el mejor método para asegurarse de que el agua se pueda beber sin peligro.

Otro método de purificación del agua para los residentes que no tengan gas o electricidad disponibles es utilizar blanqueador líquido de uso doméstico (Chlorox, Purex, etc.). Para hacerlo, añada 8 gotas (o 1/4 cucharadita) de blanqueador por galón de agua clara, o 16 gotas (o media cucharadita) por galón de agua turbia, mézclelo bien y déjelo descansar 30 minutos antes de utilizarlo.

Este procedimiento de purificación causa que el agua huela y tenga sabor a cloro, lo que indica que ha sido desinfectada de manera adecuada.

También se puede utilizar tabletas de purificación del agua siguiendo las instrucciones del fabricante.

GWP está realizando un tratamiento y un análisis de emergencia del agua, para resolver este problema de emergencia de la calidad del agua. GWP notificará a los residentes cuando el agua se pueda volver a beber sin peligro.

Para más información llame a:

Contacto en el Servicio de Agua: Dan Askenaizer – 818-551-6906; Peter Kavounas - 818-548-2137; Dave Massie/Mike Romagnino – 818-548-2011; Pat Hayes – 818-548-2065; Ray Notario – 818-548-3962

Departamento de Publico de Salud de California: Thomas Tsui – (818) 551-2004

NOMBRE DEL SERVICIO DE AGUA

FECHA: _____

CANCELACIÓN DE LA ORDEN DE HERVIR EL AGUA

(Cancellation of Boil Water Order)

El _____ de _____ le notificaron que tenía que hervir o desinfectar toda el agua de la llave que utilizara para beber y cocinar.

El Sistema de Agua de Ciudad de Glendale junto con el Departamento de Publico de Salud de California, o la Jurisdicción Local de Salud Ambiental han determinado tras la supresión del riesgo de salud, seguido por un análisis completo del agua, que puede beber el agua de su llave sin peligro. **Ya no es necesario que hierva el agua de su llave ni que consuma agua de botella.**

Para más información llame a:

Contacto en el Servicio de Agua: Ray Notario, Principal Water Quality Specialist; Dan Askenaizer; Manager-Water Quality Section: Telefono 818-548-3962, 818-551-6906
(Nombre, puesto y no. de teléfono del representante del servicio de agua)

Departamento de Publico de Salud de California: Thomas Tsui – (818) 551-2004

ԱՍՍԱԹԻՎ _____

ԶՈՒՐԸ ԵՌԱՑՆԵԼՈՒ ՀՐԱՀԱՆԳ (Boil Water Order)

ԳԼԵՆԴԵԼԻ ԶՐԱՄԱՏԱԿԱՐԱՐՄԱՆ ԵՎ ԷԼԵԿՏՐԱՄԱՏԱԿԱՐԱՐՄԱՆ ԲԱԺԻՆ (ԳԶԷԲ)

Այս հրահանգին չհետևելը կարող է հանգեցնել ստամոքսի կամ աղիքային հիվանդությունների առաջացմանը:

20 _____ թվականի _____-ին ջրամատակարարման սիստեմում աղիքային (կղանքային) ցուպիկաձև բակտերիաներ (կամ էջերիխիա կոլի) են հայտնաբերվել: Այս բակտերիաները կարող են Ձեզ մոտ հիվանդություններ առաջացնել և մասնավորապես վտանգավոր են թուլացած խնունային համակարգ ունեցող անձանց համար:

Աղիքային (կղանքային) ցուպիկաձև բակտերիաները և էջերիխիա կոլին (աղիքային ցուպիկը) այնպիսի բակտերիաներ են, որոնց առաքյությունը ջրում վկայում է այն մասին, որ ջուրն աղտոտված է մարդկային կամ կենդանական կղանքով: Այսպիսի արտադրանքներում (կղանքային զանգվածներում) գտնվող միկրոբները կարող են առաջացնել լուծ, ուժեղ ցավեր որովայնի շրջանում, սրտխառնոց, գլխացավեր կամ այլ սխտանշաններ: Երանք կարող են առանձնահատուկ առողջական վտանգ ներկայացնել երեխաների, երիտասարդ երեխաների և լքանակալից կերպով թուլացած համակարգ ունեցող անձանց համար:

Վերջերս կատարված ջրի ստուգումներից ստացված արդյունքներից ելնելով՝ Կալիֆորնիայի Առողջապահական ծառայությունների վարչությունը Գլենդելի Ջրամատակարարման և Էլեկտրամատակարարման բաժնի հետ համատեղ _____ շրջանում բնակվող բնակիչներին խորհուրդ են տալիս սպառողական համար խմելու և կերակուր պատրաստելու նպատակների համար օգտագործել եռացրած հոսող ջուր կամ շշերում լցված ջրեր՝ որպես նախազգուշական միջոց:

Խմելու կամ կերակուր պատրաստելու նպատակով օգտագործվող հոսող ջուրը անպայման պետք է առնվազն 1 րոպե տևողությամբ ուժեղ եռացվի: Սա առավել նախընտրելի մեթոդն է, որպեսզի համոզվեք, որ ջուրն ապահով է խմելու նպատակով գործածելու համար:

Գազ կամ էլեկտրականություն չունեցող բնակիչները կարող են ջրի մաքրման մի այլ տարբերակից օգտվել՝ գործածելով կենցաղային նպատակների համար նախատեսված թարմ հեղուկ ժավել (Clorox, Purex, և այլն): Դրա համար անհրաժեշտ է 1 գալոն պարզ ջրին ավելացնել 8 կաթիլ (կամ ¼ թեյի գդալ) ժավել, իսկ 1 գալոն պղտոր ջրին՝ 16 կաթիլ (կամ ½ թեյի գդալ) ժավել, որից հետո ջուրը պետք է լավ խառնել և նախքան օգտագործելը թողնել որ 30 րոպե անցնի:

Ջրի մաքրման այս մեթոդի հետևանքով քլորանման համ և հոտ է առաջանում, որը վկայում է այն մասին, որ կատարվել է պատեհ վարակազերծում:

Կարելի է օգտագործել նաև ջրի մաքրման հաբեր՝ հետևելով արտադրողի կողմից առաջարկված ցուցումներին:

Գլենդելի Ջրամատակարարման և Էլեկտրամատակարարման բաժինը անհապաղ միջոցներ է ձեռնարկում ջրի մաքրման և ջրի որակի ստուգման համար՝ ջրի որակի հետ կապված այս անհետաձգելի խնդրի լուծման նպատակով: Ջրամատակարարման և Էլեկտրամատակարարման բաժինը բնակիչներին խնդրում է կտեղեկացնի, եթե ջուրը խմելու համար ապահով դառնա:

Լրացուցիչ տեղեկություններ ստանալու նպատակով զանգահարեք.

Ջրամատակարարման ծառայությունների բաժին՝ Դանիել Ասկենայզերին – 818-551-6906, Փիթեր Քալմունասին – 818-548-2137, Դեյվ Մասսին կամ Մայք Ռոմանիկոյին – 818-548-2011, կամ Ռեյ Լոթարիոյին – 818-548-3962

Կալիֆորնիայի Առողջապահական ծառայությունների վարչություն՝ Թոմաս Սուլին – 818-551-2004

Գլենդելի Զրամատակարարման և էլեկտրամատակարարման բաժին

ԱՄՍԱԹԻՎ. _____, 20__

ՋՈՒՐԸ ԵՌԱՑՆԵԼՈՒ ՀՐԱՀԱՆԳԻ ԴԱԴԱՐԵՑՈՒՄ
(Cancellation of Boil Water Order)

20__ թվականի _____ -ին, Ձեզ տեղեկացրել էինք խմելու և կերակուր սպտրաստելու նպատակով օգտագործվող բոլոր հոսող ջրերի եռացման/ախտահանման անհրաժեշտության մասին:

Գլենդելի Զրամատակարարման և էլեկտրամատակարարման բաժինը և Կալիֆորնիայի Առողջապահական ծառայությունների վարչությունը համատեղ, ելնելով ջրի բազմակողմանի ստուգումներից, պարզել են, որ առողջությանը սպառնացող վտանգը թուլացել է, և որ Ձեր ջուրը խմելու նպատակով օգտագործման համար ապահով է: Այլևս անհրաժեշտ չէ հոսող ջուրը եռացնել կամ օգտվել շշերում լցված ջրերից:

Լրացուցիչ տեղեկություններ ստանալու նպատակով զանգահարեք.

Զրամատակարարման ծառայությունների բաժին՝ Դանիել Ասկենայզերին – 818-551-6906, Փիթեր Քավունասին – 818-548-2137, Դեյվ Մասսին կամ Մայք Ռոմանինոյին – 818-548-2011, կամ Ռեյ Նոթարիոյին – 818-548-3962

Կալիֆորնիայի Առողջապահական ծառայությունների վարչություն՝ Թոմաս Սույին– 818-551-2004

Chlorine Leak

The City of Glendale Water and Power's pump stations are equipped with on-line gas chlorinators for disinfection of potable water. The chlorinators are visually inspected by the City of Glendale Water and Power operators who inspect the pump stations several times per week. The programmable logic controller at each pump station senses power failures, and chlorine detectors trigger alarms at leak levels of 1 ppm and 3 ppm chlorine. At 1 ppm, the alarm activates the RED light at the chlorine storage room. At 3 ppm the signal is sent to the Glendale Dispatch as an alarm on the SCADA. If in doubt as to the severity of these problems, call the Fire Department.

Level 1 – Minor Leak: Any leak in the chlorination system other than the cylinder. All repairs to the chlorination system only will be performed by qualified personnel.

1. If a Level 1 occurs during working hours:

- a. Glendale Dispatch and pager notification informs the Water Facilities Supervisor and/or Water Facilities Operators, on duty that a SCADA alarm has occurred.
- b. Two Water Facilities Operators will respond to the alarm at all times and are required to wear personal protective clothing and have equipment on site before entering the chlorine room. Personal protective clothing is defined as **long** sleeve shirt or jacket to protect the skin from exposure. Personal protective equipment is two self-contained breathing apparatuses (SCBAs,) a chlorine gas detector, neoprene gloves, and goggles for eye protection.
- c. Two Water Facilities Operators will evaluate the status of the equipment and cylinder by doing a visual inspection and using an ammonia sniffer to check for leaks. If repairs are needed on the chlorination system, turn off the chlorinator and notify a Water System Mechanic.
- d. The Water Facilities Supervisor or Water Facilities Operator will notify Glendale Dispatch when repairs are completed and the chlorination system is back in service.

2. **If the Level 1 occurs after working hours:**

- a. Glendale Dispatch and pager notification informs the Water Section Safety Supervisor, who will arrange for Glendale Dispatch to notify an assigned back-up person. If the Safety Supervisor is unavailable, Glendale Dispatch will call the **next two people on the list**. Entry procedures will be the same if Level 1 minor leak occurs after working hours.
- b. The Water Section Safety Supervisor or Water Facilities Operator(s) will notify Glendale Dispatch when they are onsite and when they are done at the site.

Level 2 – Major Leak: Any leak in the cylinder. All repairs on cylinders will be performed by the Glendale Fire Department **HAZ-MAT** Unit who will take control of the Incident Command.

1. **If the Level 2 occurs during working hours:**

- a. If after the Water Facilities Operator inspects the situation and finds the leak is in the cylinder and/or the leak is not manageable, the Water Facilities Operator will exit the chlorine room and notify the GWP/ UOC Dispatcher or Glendale Dispatch will call the Fire Department, who will dispatch the **HAZ-MAT** unit to repair the leak. The Water Facilities Operator will also call the Water Superintendents and Water Section Safety Supervisor to respond to the leak site.
- b. When the Fire Department arrives on the scene, they will take over as **Incident Command**. Operators will remain on scene to assist and answer questions.
- c. If needed, the Water Superintendents and Water Section Safety Supervisor will assist the Fire Department in directing evacuation of the area.
- d. The Water Superintendents and Water Section Safety Supervisor will be responsible for keeping the Assistant General Manager Water Services advised of the system status.

2. **If the Level 2 occurs after working hours:**

- a. If the leak is in the cylinder, the Water Section Safety Supervisor, Water Facility Operator, and/or trained staff will notify Glendale Dispatch to first call the Fire Department who will dispatch the HAZ-MAT unit to repair the leak, and then call the Water Superintendents. **Entry procedures will be the same as Level 1; Step b, c, and d during working hours (refer to notification policy).**
- b. When the Fire Department arrives on scene, they will take over as **Incident Command**. Qualified water personnel will remain on scene to assist.
- c. If needed, the Water Superintendents and Water Section Safety Supervisor will assist the Fire Department in directing evacuation of the area.
- d. The Water Superintendents and Water Section Safety Supervisor will be responsible for keeping the Assistant General Manager Water Services advised of the system status.

Level 3 – Catastrophic Leak: Any leak that has discharged a large volume of chlorine that could cause Immediate Danger to Life and Health. The Glendale Fire Department HAZ-MAT Unit will take control of the **Incident Command** and start an evacuation of the surrounding area if needed.

1. **If the Level 3 occurs during working hours:**

- a. If the GWP /UOC Dispatch receive complaints of a strong chlorine smell in the vicinity of chlorine sites, call the Water Superintendents, Water Facilities Operators and Water Section Safety Supervisor. Upon arriving on scene, if there is a plume cloud accompanied with a strong chlorine smell, or if the Operator visually observes large amounts of chlorine escaping from the cylinder, immediately call the GWP/UOC Dispatch or Glendale Dispatch and declare a Level 3 Chlorine Leak emergency. Instruct Dispatch to call the Fire Department and request the HAZ-MAT Unit.
- b. The Water Facilities Operators must leave the immediate area and be upwind of the plume. Operators must notify the Water Superintendents and Water Section Safety Supervisor immediately as to the system status.
- c. The Water Facilities Operator must, to the best of his/her ability, keep the public and employees away from the leak site until the Fire Department arrives on scene.
- d. The Water Superintendents and Water Section Safety Supervisor will be responsible for keeping the Assistant General Manager Water Services advised of the system status.

2. **If the Level 3 occurs after working hours:**

- a. If Glendale Dispatch receives calls reporting a strong chlorine smell, Glendale Dispatch will send out the Water Section Safety Supervisor, Water Facilities Operator, and Fire Department.
- b. If the leak is determined to be catastrophic, the Fire Department will take over as **Incident Command**. Qualified water personnel will remain on scene to assist and answer questions.
- c. If needed, the Water Superintendents and Section Safety Supervisor will be responsible for keeping the Assistant General Manager Water Services advised of the system status.
- d. If assistance in the repair effort is necessary, the Water Facilities Supervisor will contact the chlorine system repair specialist, MATT-CHLOR.

****** In addition to the emergency response staff listed above, another source of assistance is the Chlorine Institute's Emergency Plan CHLOREP. This plan can be activated by calling CHEMTREC at (800) 424-9300. CHLOREP is to be activated only if steps a-d is unsuccessful.

The Water Superintendents or designee who is responsible for making any of the calls, must be sure to give the agency contacted complete details, including:

- A. Facility Name
- B. Facility Address
- C. Names of personnel to contact for further information, and their telephone numbers

The description of the emergency should include:

- A. Size of container
- B. Corrective action already taken
- C. Injuries, if any
- D. Local weather conditions
- E. Proximity to populated areas
- F. Directions for easiest access to site.

LIST OF WATER SECTION STAFF
QUALIFIED TO REPAIR CHLORINE LEAKS

<u>Names:</u>	<u>Home:</u>	<u>Cell No.:</u>	<u>Pager:</u>
Frank Williams	818- 353-4447	818- 331-8485	818-819-4458
Travis Waters	909-427-0628	818- 649-4179	818-973-6778
Kevin Weekley	818- 845-1173	818-450-6865	818-673-8883

CHLORINE SPECIALISTS

Name	Phone
James Woodward MATT -CHLOR 4107 North Arden EI Monte, CA 91731	626-443-5034
CHEMTREX Chemical Industrial Response Team	800- 424-9300
Dan Trybulski Siemens Water Technologies Corp. 13100 Gregg Street, Ste A Poway, CA 92064	866-780-5930

CHLORINE VENDOR

Jones Chemical (JCI) 150 / 1 Ton chlorine cylinders 1401 W. Del Amo Blvd. Torrance Ca. 90501	310- 523-1629
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INFORMATION ON CHLORINATION STATIONS

<u>Location Number*</u>	<u>Facility</u>	<u>#Cylinders & Size</u>
2	Western Pump Station	2-150
7	Glenoaks 968 Pump	2-150
16	Chevy Chase 1290 Pump Station	2-150
20	Park Manor Pump Station	2-150
22	Linda Vista Pump House	21-50
31	Cooks Canyon Pump Station	2-150
33	MWD G-1 Connection	2- 1 ton
46	Glorietta Wells #3 & #4	2-150
53	Emerald Isle 1290	2-150
54	Glorietta Well #6	2-150
57*	Glorietta Park Pump Station	2-1 ton

*** Refer location number on the Water Quality Monitoring Plan.**

DURING WORKING HOURS:

ANY CHLORINE ALARMS DURING **NORMAL WORKING HOURS** WILL BE HANDLED BY WATER FACILITIES OPERATORS. IF WATER FACILITIES OPERATORS ARE SHORT-HANDED, THE SAFETY SUPERVISOR WILL RESPOND TO ANY CHLORINE ALARM AND ASSIST AS NEEDED.

<u>Name</u>	<u>Radio</u>	<u>Pager</u>	<u>Cell</u>
Sal Sanchez	1340	818- 973-0811	818- 314-4446
Hector Pina	1342	818- 202-0217	818- 254-5407
Travis Waters	1341	818- 973-6778	818- 649-4179
Carlos Morales	1344	818- 202-0640	818-317-4984
Louie Hernandez	1343	818- 476-2449	818-291-3274

AFTER WORKING HOURS:

IN ORDER OF CALL-OUT:

<u>Name</u>	<u>Radio</u>	<u>Home #</u>	<u>Pager #</u>
Tim Doyle	1360	818-843-3315	818-202-0681
Frank William's	1322	818- 353-4447	818- 819-4458
Kevin Weekley	1332	818 - 845-1173	818 - 673-8883
Carlos Morales	1344	818 - 502-7716	818- 202-0640
Hector Pina	1342	626 - 858-0129	818- 202-0217
Sal Sanchez	1340	562 - 699-4738	818- 973-0811
Louie Hernandez	1343	909 - 305-4719	818- 202-0261
Travis Waters	1341	909-427-0628	818- 973-6778

Dam Failure Emergency

A dam failure emergency occurs when there is or could be a break in a water system reservoir. The break could be suspected based on a release of a large or small amount of water from the reservoir. A break would be identified based on a physical inspection of the reservoir, by a report of a large amount of unexplained water in the vicinity of the reservoir, or flooding conditions in the vicinity of the reservoir. It could also be identified by a large drop in water levels in the reservoir indicative of a break.

There are 28 reservoirs on the water system. Some are subsurface or below ground concrete reservoirs and some are above ground steel or concrete tank reservoirs. Because of certain characteristics, some of the reservoirs are under the jurisdiction of the State Division of Dam Safety.

The reservoirs under the jurisdiction of the State are:

Name of Dam	State Dam Number
Brand Reservoir	5-000
Western Reservoir	5-004
Diederich Reservoir	5-006
Glenoaks 968 Reservoir	5-007
Chevy Chase 1290 Reservoir	5-008
East Glorietta Reservoir	5-009

The State must be notified of any problems with these reservoirs. Included in this tab is a list of contact persons in the State Division of Dam Safety. It also contains an inundation map showing areas subject to flooding.

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs, or their agents, to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstances or occurrence affecting the dams or reservoirs.

In the event of an emergency involving the dam(s) or reservoir(s) listed in the above table, in addition to notifying local authorities, the following personnel will be notified.

During Work Hours:

David A. Gutierrez, Chief
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818
(916) 227-4644

The most likely indication of a reservoir failure will be the presence of water in gutters in the vicinity of the reservoirs and tanks. This could include a small amount of water flowing from the tank site to the street, or flooding as a result of a rupture. In the latter case, the problem is obvious. In the former case, more investigation is required.

Currently, there are three levels of emergency responses based on the volume of water released from the reservoir. **The Reservoir Emergency Response** diagram shows the course of action taken when there is a water release in the storage facilities. The diagram delineates the procedures to be followed as described below.

Level 1 is a minor release when there is only a garden hose volume of water being discharged. In level 1, the leak is periodically inspected for increase in volume until repairs are completed. For response see Reservoir Emergency Response

Level 2 is a moderate water release equivalent to fire hydrant volume. For response see Reservoir Emergency Response.

Level 3 is widespread flooding as a result of reservoir or tank rupture and tank itself. For responses See Reservoir Emergency Response.

After Working Hours and on Weekends and Holidays:

Area 9 Engineer

Division of Safety of Dams

Rick G. Draeger

Home – 209-748-5606

Cell – 951-316-7678

Office – 916-227-4755

If the Chief or Area 9 Engineer cannot be reached, contact:

Southern Region Engineer

Shawn O. Jones

Home – 916-383-3689

Cell – 916 – 216-8711

Office – 916-227-4600

If neither the Area 9 Engineer nor the SouthernRegion Engineer can be reached, call:

California State Police

(916) 445-1150

Increased Readiness Emergency Plan Dam Failure

Attached are possible scenarios for the City of Glendale, *Water & Power* Department's larger reservoirs that might leak. These scenarios are more likely to occur as the result of an earthquake, rather than heavy rains. These reservoirs have sealed floor slabs. In the event of a leak in a joint, there are under floor pipe systems that detect leaks under the reservoirs. This usually gives adequate warning, allowing controlled drainage of the reservoirs, thereby alleviating the threat of sudden collapse.

Glenoaks 968 Reservoir: This reservoir is a large reinforced concrete box. Total failure of this facility is not likely; however, controlled drainage is possible, which would flood houses below the reservoir. (Water 4' to 6' deep near the reservoir would quickly reduce to approximately 2' in the street and flow down the middle of the streets. Auto damage is expected (see the attached inundation map). Houses shaded in shaded areas should be evacuated as a precautionary measure.

Chevy Chase 1290 Reservoir: This reservoir is a wooden roofed reservoir, with reinforced concrete floor slabs, with sealed joints. Reservoir would drain into Sheridan Road and carried quickly down streets and into LA County debris basin, near golf course. Houses immediately below the reservoir should be evacuated. Automobiles would be washed down the streets. Houses on each side of street should be evacuated as a precautionary measure (see inundation map).

Brand Reservoir: This facility has earth fill supporting a wooden roofed reservoir. The floor is made of reinforced concrete with sealed floor joints. Even with total collapse, water would drain directly into LA County debris basin below. No impact is expected on residents below dam (see inundation map).

Glorietta Reservoir: This reservoir is a concrete roofed box, with top slab about 10' above street (under baseball diamond). Reservoir would drain into cul-de-sac street that has flap gates. Probably would have about 4' to 6' of water in street that is about 400' long. Vehicles in street would be flooded. Houses could suffer damage and should be evacuated. (Total collapse of structure is very unlikely.) (see inundation map).

Western Reservoir: Wood roofed reservoir has reinforced concrete floor with sealed joints. Two walls are supported with soil 20' above street (maximum). Only a small portion of water is above street, however, streets are very flat. Water should be confined to streets, except in immediate area of the reservoir. Evacuate areas shaded in blue as precautionary measures (see inundation map).

Diederich Reservoir: A large reservoir with fully reinforced concrete walls and roof with one wall supported by 25'; high slope. Total failure not likely, however, controlled drainage is possible, which could put water in streets may be 4' deep near reservoir to about 2' deep within four blocks and then street flow to Arroyo Verdugo. Houses and vehicles in area indicated should be evacuated; however, damage will probably be confined to area near reservoir (see inundation map).

Glenoaks 1290 Tank (not a reservoir): This reinforced concrete tank is not considered a reservoir. It is designed to be self supporting even with slope failures. Total failure is not likely; however, Glenoaks Blvd. will take the water. When the water gets to the residential area below, it will flood streets as indicated in blue below. Homes in blue area may have to be evacuated as precautionary measure (see inundation map).

Unexplained Discharge from a Sub drain Drainage System Of a Reservoir

There is generally a sub drain drainage system for subsurface or below ground reservoirs that can cause an ongoing discharge of water. If there is a change in discharge patterns, it is imperative that an engineering review of the situation be performed. For above ground reservoirs, any discharge from the tank should be viewed as a concern.

Based on the inspection, possible options are to be discussed with Management. The engineer will make recommendations for follow-up, but continue observation (Level 1 and 2) response. This could range from no follow-up work, to partially draining the reservoir, to entirely draining the reservoir (Level 3), or to evacuating the entire area in combination with draining the reservoir.

If any actions are taken, the appropriate notification to the Police and Fire Department is necessary .

IF THE UNEXPLAINED DISCHARGE IS NOTICED OR OCCURS DURING WORKING HOURS:

- ~ Dispatch field personnel to investigate.
- ~ If they confirm the discharge, the Water Engineers are to be notified to inspect the facility.

IF THE UNEXPLAINED DISCHARGE IS NOTICED OR OCCURS AFTER WORKING HOURS:

- ~ Howard Substation is to dispatch the "Stand-by" person to investigate
- ~ If the release is confirmed, the Water Superintendents are to be notified and arrangements made for an engineer to inspect the site
- ~ Based on the inspection, possible options are to be discussed with Management

Rupture of Dam – Level 3

In this case, there will be widespread flooding. Large amounts of water will be found in adjacent streets and possibly flooding of structures. The Water Section will most likely become aware of this by notification from the Fire or Police Departments, or citizens affected by the flooding.

IF THE DAM BREAK OCCURS DURING WORKING HOURS:

Water Superintendents are to:

1. Dispatch field crews to the site for inspection
2. Dispatch Water Facility Operators to turn off the pumps serving the reservoir to eliminate flow into the reservoir
3. Contact Water Engineering Section to initiate inspection of the effected site(s)
4. Keep Assistant General Manager Water Services informed as to status

The staff has a number of options depending on what they observe. This could include:

1. Evacuate people as required
2. Turn off pumps serving the reservoir
3. Isolate the reservoir in the water distribution system
4. Attempt to dewater the reservoir using on-site valving
5. Turn on fire hydrants downstream of the reservoir to increase dewatering
6. Keep traffic out of the area
7. Contact Police and Fire Departments
8. As required, call out office engineers for inspection
9. Contact the Division of Safety of Dams of reservoirs and tanks listed

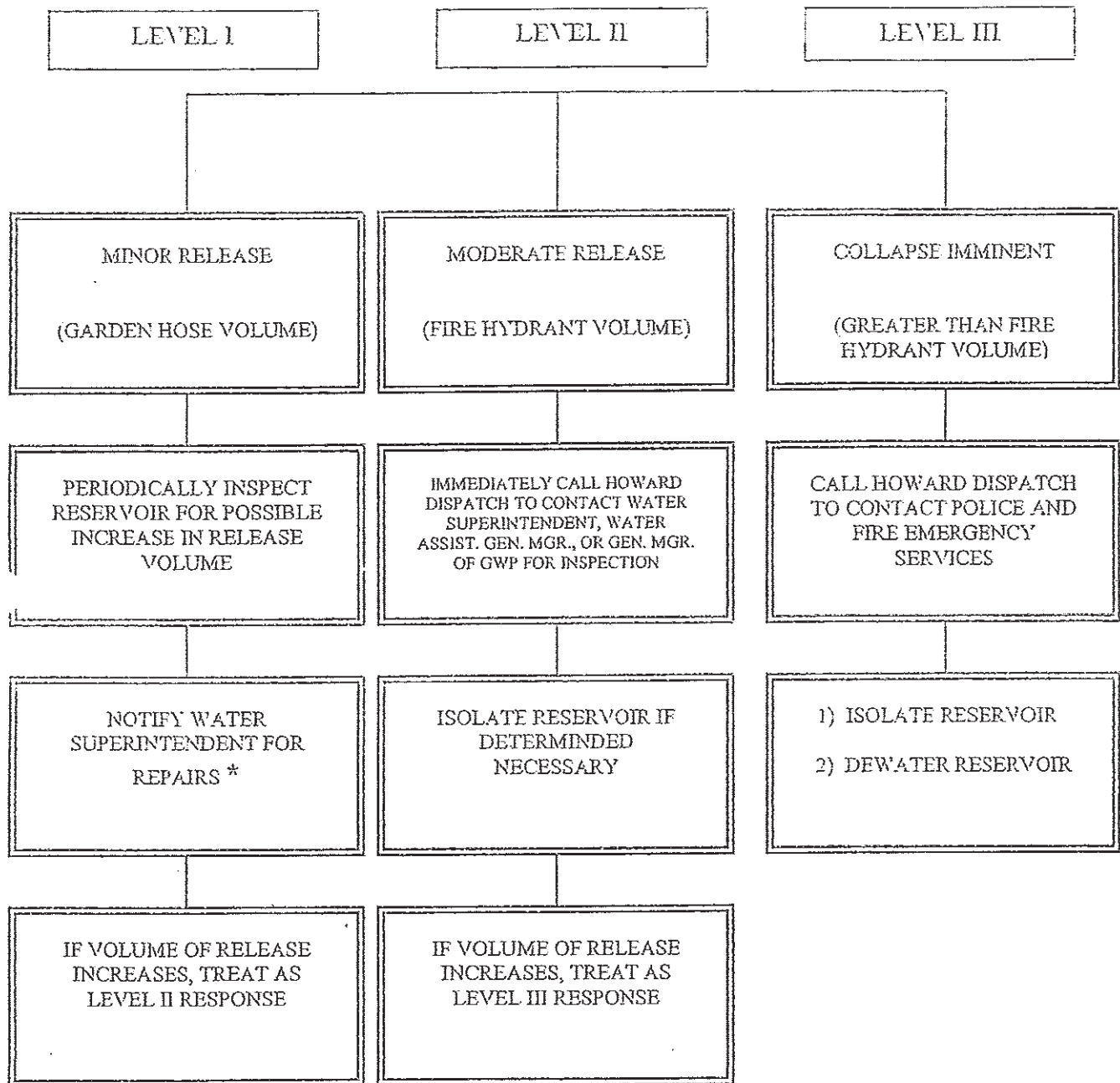
IF THE DAM BREAK OCCURS AFTER WORKING HOURS:

Glendale Dispatch will contact the Stand-By person and the Water Superintendents.

Water Superintendents are to quickly begin an assessment of the situation and begin assembling crews to take the appropriate action, as specified above.

1. Notify and recall field crews and Water Facilities Operators
2. Notify Police and Fire
3. Notify and recall Principal Civil Engineer
4. Keeps Assistant General Manager Water Services informed of status.

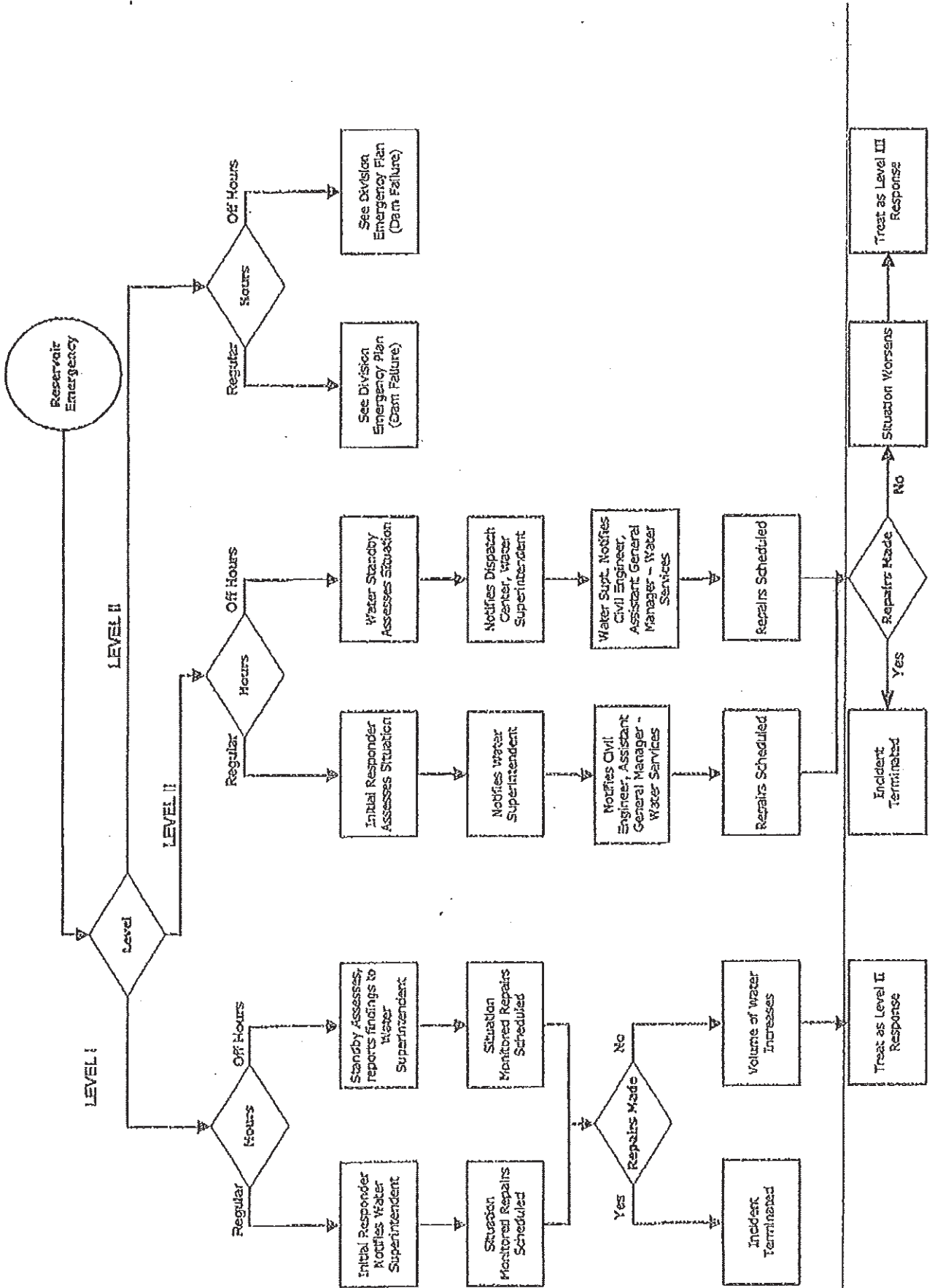
RESERVOIR EMERGENCY RESPONSE**



** APPLIES TO FIRST RESPONDER DISCOVERING SITUATION

* WATER ASSIST. GEN. MGR. OR GEN. MGR. OF GWP.
WATER SUPERINTENDENT TO NOTIFY WATER ASSIST. GEN. MGR.

Reservoir Emergency Response Procedure



DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791

SUBJECT: EMERGENCY PROCEDURES NOTICE UPDATE

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs, or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

Enclosed is an updated Division of Safety of Dams "Emergency Procedures Notice" for your dam. This Notice lists relevant contact information and provides general guidance for reporting any unusual or alarming circumstance affecting your dam or reservoir. As the Notice indicates, it must be kept in a convenient location for use in an emergency at or near your dam site. We will update this Notice and send you periodic updates as information changes.

Please contact us if you no longer own this dam.

If you have any questions or need additional information, contact Field Engineering Branch Chief, Michael Waggoner at (916) 227-4667 or me at (916) 227-9800.

Sincerely,

A handwritten signature in cursive script, appearing to read "M. Zumot".

Mike Zumot, Acting Chief
Division of Safety of Dams

Enclosure



State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

Brand Park Dam No. 5-0, Los Angeles County

Latitude 34.185116 degrees North, Longitude 118.274989 degrees West

Section 8, Township 1N, Range 13W, San Bernardino Base Meridian

Storage Capacity = 32 acre-feet

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

In the event of an emergency involving your dam or reservoir (in addition to calling 911 and notifying local authorities) please notify the following:

1. During working hours:

Michael Waggoner, Chief
Field Engineering Branch
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818

(916) 227-9800

2. After working hours and on weekends and holidays:

Rick G. Draeger, Area 9 Engineer
209-748-5606 (home) 951-316-7678 (cell) 916-227-4755 (office)

If the Area Engineer is not reachable, contact:

Shawn O. Jones, Southern Region Engineer
916-383-3689 (home) 916-216-8711 (cell) 916-227-4600 (office)

3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

FOR OFFICIAL USE ONLY

THIS NOTICE MUST BE KEPT IN A CONVENIENT PLACE
(preferably near the telephone for use in an emergency at or near the dam site).



State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

10th and Western Dam No. 5-4, Los Angeles County
Latitude 34.179880 degrees North, Longitude 118.281785 degrees West
Section 7, Township 1N, Range 13W, San Bernardino Base Meridian
Storage Capacity = 46 acre-feet

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Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818
(916) 227-9800

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3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

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State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

Diederich Res Dam No. 5-6, Los Angeles County

Latitude 34.168980 degrees North, Longitude 118.250545 degrees West
Section 16, Township 1N, Range 13W, San Bernardino Base Meridian
Storage Capacity = 174 acre-feet

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

In the event of an emergency involving your dam or reservoir (in addition to calling 911 and notifying local authorities) please notify the following:

1. During working hours:

Michael Waggoner, Chief
Field Engineering Branch
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818
(916) 227-9800

2. After working hours and on weekends and holidays:

Rick G. Draeger, Area 9 Engineer
209-748-5606 (home) 951-316-7678 (cell) 916-227-4755 (office)

If the Area Engineer is not reachable, contact:

Shawn O. Jones, Southern Region Engineer
916-383-3689 (home) 916-216-8711 (cell) 916-227-4600 (office)

3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

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State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

Glenoaks 968 Reservoir Dam No. 5-7, Los Angeles County
Latitude 34.153912 degrees North, Longitude 118.212795 degrees West
Section 23, Township 1N, Range 13W, San Bernardino Base Meridian
Storage Capacity = 28 acre-feet

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

In the event of an emergency involving your dam or reservoir (in addition to calling 911 and notifying local authorities) please notify the following:

1. During working hours:

Michael Waggoner, Chief
Field Engineering Branch
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818
(916) 227-9800

2. After working hours and on weekends and holidays:

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209-748-5606 (home) 951-316-7678 (cell) 916-227-4755 (office)

If the Area Engineer is not reachable, contact:

Shawn O. Jones, Southern Region Engineer
916-383-3689 (home) 916-216-8711 (cell) 916-227-4600 (office)

3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

FOR OFFICIAL USE ONLY

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(preferably near the telephone for use in an emergency at or near the dam site).



State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

Chevy Chase 1290 Dam No. 5-8, Los Angeles County

Latitude 34.175448 degrees North, Longitude 118.214263 degrees West

Section 14, Township 1N, Range 13W, San Bernardino Base Meridian

Storage Capacity = 17 acre-feet

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

In the event of an emergency involving your dam or reservoir (in addition to calling 911 and notifying local authorities) please notify the following:

1. During working hours:

Michael Waggoner, Chief
Field Engineering Branch
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818

(916) 227-9800

2. After working hours and on weekends and holidays:

Rick G. Draeger, Area 9 Engineer
209-748-5606 (home) 951-316-7678 (cell) 916-227-4755 (office)

If the Area Engineer is not reachable, contact:

Shawn O. Jones, Southern Region Engineer
916-383-3689 (home) 916-216-8711 (cell) 916-227-4600 (office)

3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

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State of California
Department of Water Resources
Division of Safety of Dams

- NOTICE -
EMERGENCY PROCEDURES

East Glorietta Dam No. 5-9, Los Angeles County

Latitude 34.189046 degrees North, Longitude 118.214054 degrees West

Section 10, Township 1N, Range 13W, San Bernardino Base Meridian

Storage Capacity = 71 acre-feet

Section 6101 of Division 3 of the California Water Code requires owners of dams or reservoirs or their agents to advise the Department of Water Resources fully and promptly of any sudden or unprecedented flood or unusual or alarming circumstance or occurrence affecting the dam or reservoir.

In the event of an emergency involving your dam or reservoir (in addition to calling 911 and notifying local authorities) please notify the following:

1. During working hours:

Michael Waggoner, Chief
Field Engineering Branch
Division of Safety of Dams
2200 "X" Street, Suite 200
Sacramento, CA 95818
(916) 227-9800

2. After working hours and on weekends and holidays:

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209-748-5606 (home) 951-316-7678 (cell) 916-227-4755 (office)

If the Area Engineer is not reachable, contact:

Shawn O. Jones, Southern Region Engineer
916-383-3689 (home) 916-216-8711 (cell) 916-227-4600 (office)

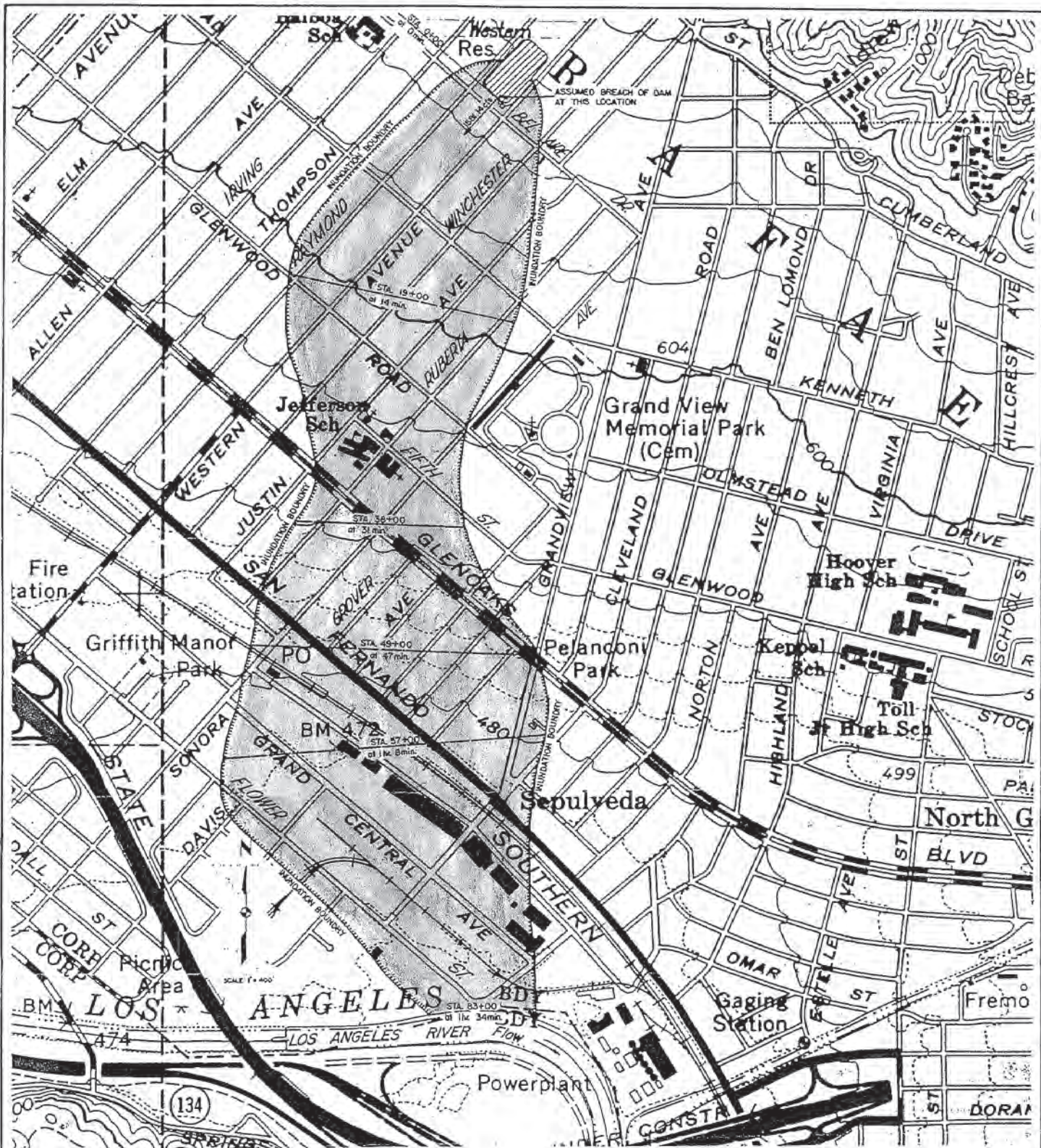
3. If the Area Engineer or the Regional Engineer cannot be reached, call the California Emergency Management Agency at (916) 845-8911.

4. For dam emergencies that may cause downstream flooding, contact the National Weather Service:

NWS Oxnard @ 805-988-6619

FOR OFFICIAL USE ONLY

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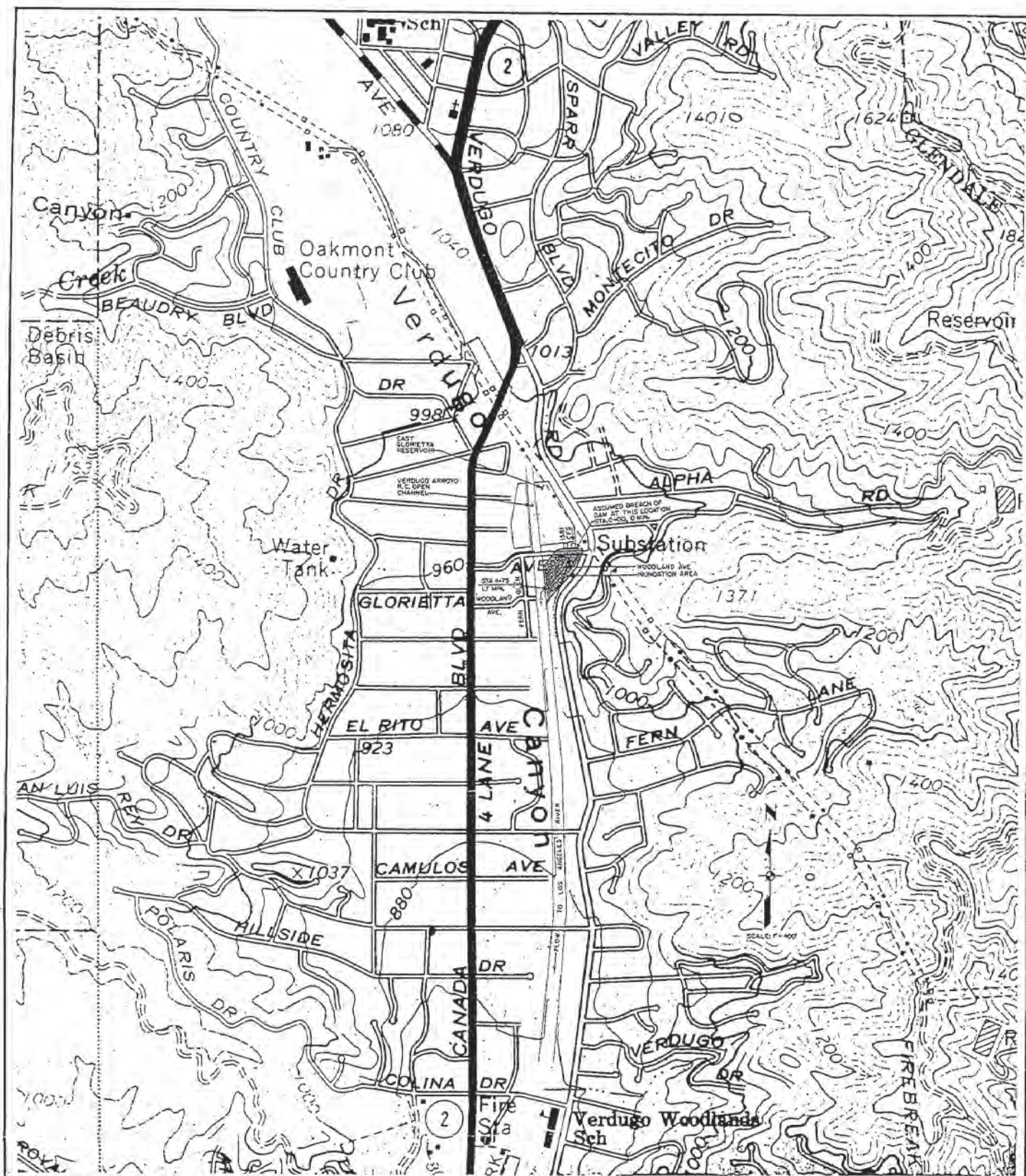


REVISIONS		ACCEPTANCE BY	DATE
BY	DATE		
ISSUED	7-23-75	SUPERSEDES MAP ISSUED R-31-73	

OWNER: CITY OF GLENDALE
 ADDRESS: PUBLIC SERVICE DEPT.
 119 N. GLENDALE AVE.
 GLENDALE, CALIF. 91206
 DATE: 7-23-75
 NEXT REVIEW DATE:

ENGINEERING ANALYSIS BY
 NAME: GARY WATKINS
 ADDRESS: PUBLIC SERVICE DEPT.
 119 N. GLENDALE AVE.
 GLENDALE, CALIF. 91206
 SIGNATURE: *Gary Watkins*
 REG. CIV. ENG. NO. 15936

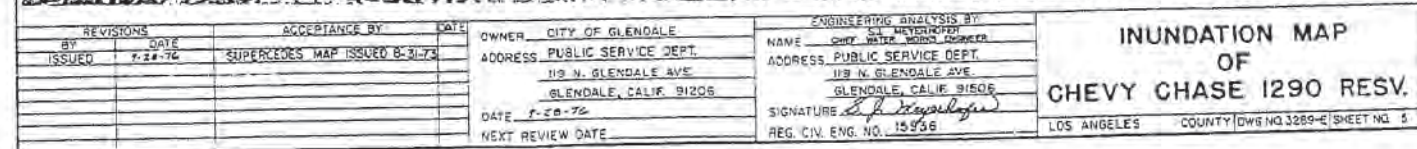
**INUNDATION MAP
 OF
 WESTERN RESERVOIR**
 LOS ANGELES COUNTY DWG NO. 3259-SHEET NO. 7



REVISIONS BY DATE ISSUED JAN 16, 1976 SUPERCEDES MAP ISSUED 6-31-75		ACCEPTANCE BY DATE	
OWNER CITY OF GLENDALE ADDRESS PUBLIC SERVICE DEPT. 119 N. GLENDALE AVE. GLENDALE, CALIF. 91206 DATE JAN. 15, 1976 NEXT REVIEW DATE		ENGINEERING ANALYSIS BY NAME CHY. M. VERHOEFF ADDRESS PUBLIC SERVICE DEPT. 119 N. GLENDALE AVE. GLENDALE, CALIF. 91206 SIGNATURE <i>[Signature]</i> REG. CIV. ENG. NO. 15936	

**INUNDATION MAP
OF
GLORIETTA RESERVOIR**

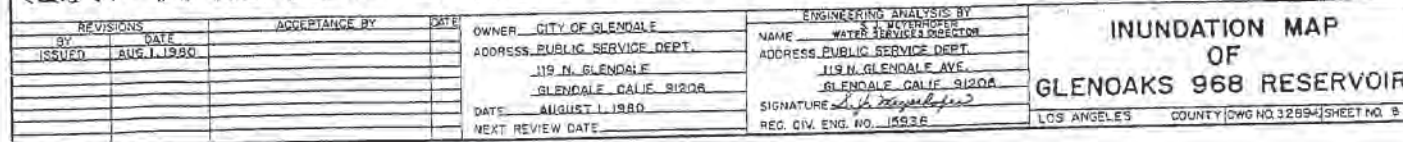
LOS ANGELES COUNTY
DWG NO. 3289-E
SHEET NO. 1

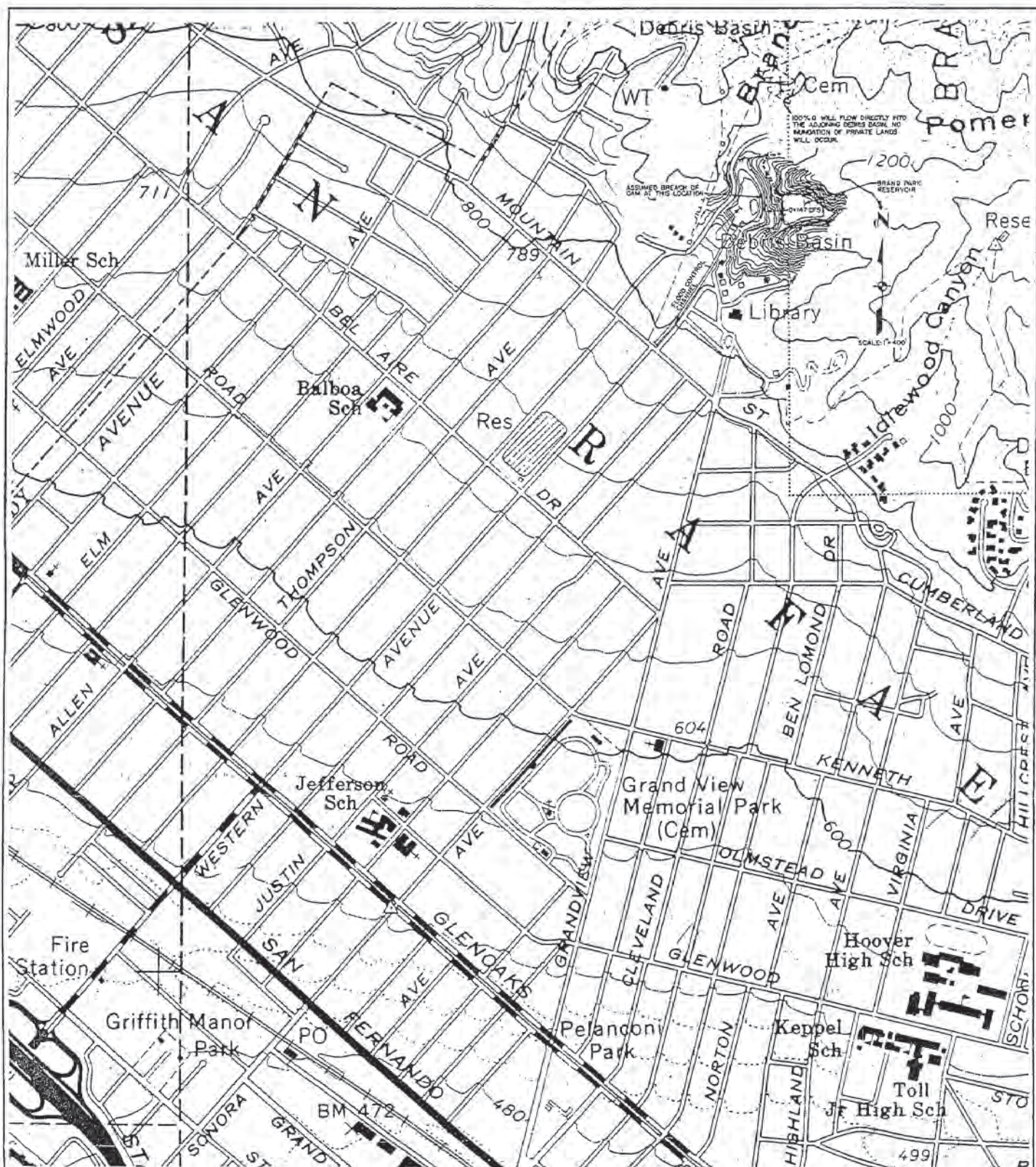
[illegible]

OWNER CITY OF GLENDALE
ADDRESS PUBLIC SERVICE DEPT.
113 N. GLENDALE AVE
GLENDALE, CALIF. 91206
DATE 1-28-76
NEXT REVIEW DATE _____

ENGINEERING ANALYSIS BY:
NAME ST MEYERHOFF
ADDRESS PUBLIC SERVICE DEPT.
118 N. GLENDALE AVE.
GLENDALE, CALIF. 91201
SIGNATURE [Signature]
REG. CIV. ENG. NO. 15936

INUNDATION MAP
OF
CHEVY CHASE 1290 RESV.
LOS ANGELES COUNTY DWG NO 3289-E SHEET NO 5





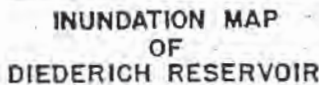
REVISIONS		ACCEPTANCE BY	DATE	OWNER	CITY OF GLENDALE	ENGINEERING ANALYSIS BY	NAME A.W. JAGOW, CH. WATER WKS. ENGR.	INUNDATION MAP OF BRAND PARK RESERVOIR	
BY	DATE			ADDRESS	PUBLIC SERVICE DEPT.	ADDRESS	PUBLIC SERVICE DEPT.		
ISSUED	AUG. 31, 1973			119 N. GLENDALE AVE.	GLENDALE, CALIF. 91206	119 N. GLENDALE AVE.	GLENDALE, CALIF. 91206	LOS ANGELES COUNTY (DWG NO. 3289-E) SHEET NO. 2	
				DATE	AUG. 31, 1973	SIGNATURE	<i>A.W. Jagow</i>		
				NEXT REVIEW DATE		REG. CIV. ENG. NO.	7108		



REVISIONS BY DATE ISSUED FEB 23, 1993		ACCEPTANCE BY DATE		OWNER CITY OF GLENDALE ADDRESS PUBLIC SERVICE DEPT. 141 N. GLENDALE AVE. GLENDALE CALIF. 91206 DATE NEXT REVIEW DATE		ENGINEERING ANALYSIS BY NAME ADDRESS PUBLIC SERVICE DEPT. 141 N. GLENDALE AVE. GLENDALE CALIF. 91206 SIGNATURE REG. CIV. ENG. NO.		INUNDATION MAP OF GLENOAKS 1290 RESERVOIR LOS ANGELES COUNTY DWSHQ3269-2 SHEET NO. 9	
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REVISIONS BY DATE ISSUED AUG. 31, 1973		ACCEPTANCE BY DATE		OWNER CITY OF GLENDALE ADDRESS PUBLIC SERVICE DEPT. 119 N. GLENDALE AVE. GLENDALE, CALIF. 91206 DATE AUG. 31, 1973 NEXT REVIEW DATE		ENGINEERING ANALYSIS BY NAME A.W. JAGOW, CH. WATER WKS. ENGR. ADDRESS PUBLIC SERVICE DEPT. 119 N. GLENDALE AVE. GLENDALE, CALIF. 91206 SIGNATURE <i>A.W. Jagow</i> REG. CIV. ENG. NO. 3180		INUNDATION MAP OF CHEVY CHASE 968 RESV. LOS ANGELES COUNTY DWS NO. 3289-E SHEET NO. 3	
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LOS ANGELES	COUNTY	DWG NO. 3283-E	SHEET NO. 4
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APPENDIX J

MWD PROJECTED WATER DEMAND
FOR CITY OF GLENDALE

Final

(July 22, 2010)

City of Glendale*Average Year*

(Average of 1922-2004 Hydrology)

Demographics¹	2010	2015	2020	2025	2030	2035
Population	196,388	201,698	204,987	208,149	211,197	214,091
Occupied Housing Units	69,449	71,096	72,478	73,548	74,585	75,436
Single Family	27,239	27,578	27,742	27,824	27,904	27,940
Multi-Family	42,210	43,518	44,736	45,724	46,681	47,496
Persons Per Household	2.79	2.80	2.79	2.79	2.79	2.80
Urban Employment	91,619	93,496	94,661	96,064	97,545	98,967

Conservation	2010	2015	2020	2025	2030	2035
Conservation ²	4,624	5,340	5,881	6,481	7,049	7,577
Installed Active Device Through 2009	476	305	249	61	0	0
Code-Based and Price-Effect Savings	4,149	5,034	5,632	6,420	7,049	7,577

Total Demands After Conservation	2010	2015	2020	2025	2030	2035
Total Demand	33,047	35,596	36,477	36,237	36,207	35,856
Retail Municipal and Industrial ³	33,047	35,596	36,477	36,237	36,207	35,856
Retail Agricultural	0	0	0	0	0	0
Seawater Barrier	0	0	0	0	0	0
Groundwater Replenishment	0	0	0	0	0	0

Local Supplies	2010	2015	2020	2025	2030	2035
Total Local Supplies	11,332	12,476	12,749	12,995	13,240	13,486
Groundwater Production	1,850	2,690	2,690	2,690	2,690	2,690
Surface Production	0	0	0	0	0	0
Los Angeles Aqueduct	0	0	0	0	0	0
Groundwater Recovery	7,923	8,010	8,096	8,183	8,269	8,356
Recycling	1,559	1,776	1,963	2,122	2,281	2,440
M&I and Agricultural	1,559	1,776	1,963	2,122	2,281	2,440
Groundwater Replenishment	0	0	0	0	0	0
Seawater Barrier	0	0	0	0	0	0
Other Non-Metropolitan Imports	0	0	0	0	0	0

Demands on Metropolitan	2010	2015	2020	2025	2030	2035
Total Metropolitan Demands	21,715	23,120	23,728	23,242	22,967	22,370
Full Service (Tier I and Tier II)	21,715	23,120	23,728	23,242	22,967	22,370
Replenishment Water ⁴	0	0	0	0	0	0
Interim Agricultural Water Program	0	0	0	0	0	0

All units are acre-feet except in Demographics Section.

1. Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG Series 12 Forecast.
2. Includes code-based, price-effect and existing active savings through CY2009; does not include future active conservation savings.
Conservation is 1990 base year. Pre-1990 add 250,000 acre-feet.
3. Retail M&I projections include conservation.
4. Replenishment Water include direct and in-lieu replenishment.

Final

(July 22, 2010)

City of Glendale*Single Dry-Year*

(Repeat of 1977 Hydrology)

Demographics¹	2010	2015	2020	2025	2030	2035
Population	196,388	201,698	204,987	208,149	211,197	214,091
Occupied Housing Units	69,449	71,096	72,478	73,548	74,585	75,436
Single Family	27,239	27,578	27,742	27,824	27,904	27,940
Multi-Family	42,210	43,518	44,736	45,724	46,681	47,496
Persons Per Household	2.79	2.80	2.79	2.79	2.79	2.80
Urban Employment	91,619	93,496	94,661	96,064	97,545	98,967

Conservation	2010	2015	2020	2025	2030	2035
Conservation ²	4,624	5,340	5,881	6,481	7,049	7,577
Installed Active Device Through 2009	476	305	249	61	0	0
Code-Based and Price-Effect Savings	4,149	5,034	5,632	6,420	7,049	7,577

Total Demands After Conservation	2010	2015	2020	2025	2030	2035
Total Demand	33,229	35,792	36,678	36,436	36,406	36,054
Retail Municipal and Industrial ³	33,229	35,792	36,678	36,436	36,406	36,054
Retail Agricultural	0	0	0	0	0	0
Seawater Barrier	0	0	0	0	0	0
Groundwater Replenishment	0	0	0	0	0	0

Local Supplies	2010	2015	2020	2025	2030	2035
Total Local Supplies	11,332	12,476	12,749	12,995	13,240	13,486
Groundwater Production	1,850	2,690	2,690	2,690	2,690	2,690
Surface Production	0	0	0	0	0	0
Los Angeles Aqueduct	0	0	0	0	0	0
Groundwater Recovery	7,923	8,010	8,096	8,183	8,269	8,356
Recycling	1,559	1,776	1,963	2,122	2,281	2,440
M&I and Agricultural	1,559	1,776	1,963	2,122	2,281	2,440
Groundwater Replenishment	0	0	0	0	0	0
Seawater Barrier	0	0	0	0	0	0
Other Non-Metropolitan Imports	0	0	0	0	0	0

Demands on Metropolitan	2010	2015	2020	2025	2030	2035
Total Metropolitan Demands	21,897	23,316	23,929	23,441	23,166	22,568
Full Service (Tier I and Tier II)	21,897	23,316	23,929	23,441	23,166	22,568
Replenishment Water ⁴	0	0	0	0	0	0
Interim Agricultural Water Program	0	0	0	0	0	0

All units are acre-feet except in Demographics Section.

1. Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG Series 12 Forecast.
2. Includes code-based, price-effect and existing active savings through CY2009; does not include future active conservation savings.
Conservation is 1990 base year. Pre-1990 add 250,000 acre-feet.
3. Retail M&I projections include conservation.
4. Replenishment Water include direct and in-lieu replenishment.

Final
(July 22, 2010)

City of Glendale
Multi Dry-Year
(Repeat of 1990-1992 Hydrology)

Demographics ¹	2015	2020	2025	2030	2035
Population	201,698	204,987	208,149	211,197	214,091
Occupied Housing Units	71,096	72,478	73,548	74,585	75,436
Single Family	27,578	27,742	27,824	27,904	27,940
Multi-Family	43,518	44,736	45,724	46,681	47,496
Persons Per Household	2.80	2.79	2.79	2.79	2.80
Urban Employment	93,496	94,661	96,064	97,545	98,967

Conservation	2015	2020	2025	2030	2035
Conservation ²	5,340	5,881	6,481	7,049	7,577
Installed Active Device Through 2009	305	249	61	0	0
Code-Based and Price-Effect Savings	5,034	5,632	6,420	7,049	7,577

Total Demands After Conservation	2015	2020	2025	2030	2035
Total Demand	35,659	36,899	36,885	36,812	36,521
Retail Municipal and Industrial ³	35,659	36,899	36,885	36,812	36,521
Retail Agricultural	0	0	0	0	0
Seawater Barrier	0	0	0	0	0
Groundwater Replenishment	0	0	0	0	0

Local Supplies	2015	2020	2025	2030	2035
Total Local Supplies	12,415	12,701	12,946	13,192	13,437
Groundwater Production	2,690	2,690	2,690	2,690	2,690
Surface Production	0	0	0	0	0
Los Angeles Aqueduct	0	0	0	0	0
Groundwater Recovery	7,992	8,079	8,166	8,252	8,339
Recycling	1,733	1,932	2,091	2,250	2,409
M&I and Agricultural	1,733	1,932	2,091	2,250	2,409
Groundwater Replenishment	0	0	0	0	0
Seawater Barrier	0	0	0	0	0
Other Non-Metropolitan Imports	0	0	0	0	0

Demands on Metropolitan	2015	2020	2025	2030	2035
Total Metropolitan Demands	23,244	24,198	23,939	23,620	23,084
Full Service (Tier I and Tier II)	23,244	24,198	23,939	23,620	23,084
Replenishment Water ⁴	0	0	0	0	0

All units are acre-feet except in Demographics Section.

1. Growth projections are based on SCAG 2008 Regional Transportation Plan and SANDAG Series 12 Forecast.
2. Includes code-based, price-effect and existing active savings through CY2009; does not include future active conservation savings.
Conservation is 1990 base year. Pre-1990 add 250,000 acre-feet.
3. Retail M&I projections include conservation.
4. Replenishment Water include direct and in-lieu replenishment.

